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# The RHODE ISLAND MEDICAL JOURNAL

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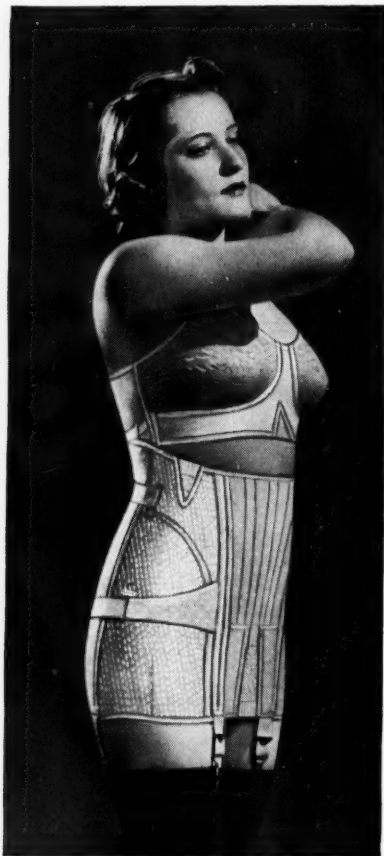
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# The RHODE ISLAND MEDICAL JOURNAL

VOL. XXXI

OCTOBER, 1948

NO. 10

## EFFECTIVE PROCEDURES IN THE TREATMENT OF INJURED HANDS TO PREVENT CRIPPLING DEFORMITIES\*

WILLIAM E. BROWNE, M.D.

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SERIOUS permanent dysfunction may follow injury to any of the structures of the hand. A small laceration involving the skin and underlying fat with ensuing infection may result in a crippled finger. That fact is so obvious that mentioning it is really unnecessary. It is equally obvious that wounds of the hand must be made clean or infection will result. These infections have not materially lessened in number since the advent of sulfa drugs and penicillin. These remedies are valuable in controlling infection after it has developed. Making clean a potentially or actually infected wound of the hand will, in 97% of hand injuries, prevent infection. Cleansing a wound is a prime requisite in the management of wounds in other parts of the body, and certainly in the management of wounds of the hand. After cleansing, removal of devitalized tissues and those which will become devitalized must be done before a wound of the hand may be closed.

### *Diagnosis of Injured Structures*

A correct diagnosis of injured structures is necessary in order that adequate treatment may be carried out. Correct diagnosis demands a knowledge of the anatomy of these structures and their functions; a knowledge of the layers of the skin which, unbroken, is highly resistant to infection; a knowledge of the gross and microscopic anatomy of tendons and nerves and blood vessels, and the healing of these structures after injury. It is necessary to know of benign and malignant growths because at times growths of one kind or another are en-

countered in the management of wounds of the hand. Effective measures widely but not uniformly and routinely used in the management of a bad laceration of the hand may well be set forth in the consideration of a hypothetical patient — let us say a twenty-eight year old male employee — who was injured at ten o'clock this morning. His hand was caught and pulled in forcefully between a rapidly moving wire rope and a pulley. He was seen within a few minutes by a well trained nurse in the first aid room of the plant. She at once noted the wound was not bleeding very badly, and she covered it with sterile gauze. It involved the radial side of the wrist, and it extended obliquely distalward up onto the thenar eminence. There was a superficial prolongation of the wound toward the ulnar side of the wrist. She said the wound appeared jagged and deep. A pressure dressing was put on by her and the man was sent to the hospital. There in the accident room brief but adequate questioning revealed he was in no great pain. He did feel a little faint. He had never had fainting spells. So far as he knew, he was in good health. A specimen of urine examined after admission to the ward was negative for tests for albumin and sugar. He had been in the last war and understood, following a puncture wound of the foot, he had been given a "shot" to prevent lockjaw. That was four years ago. No subsequent "shots" had been given him. He had never had epileptic or other convulsive seizures. The accident happened in the shipping room of a machine shop. In the accident room at the hospital this "pressure" dressing which had been put on by the nurse was not disturbed. Some blood had leaked into the outer layers of it, but it was not soaking wet with blood. The distal phalangeal portion of the thumb and distal and mid phalangeal portions of other fingers were visible beyond the end of the dressing. The front of the thumb felt numb. He could not flex the interphalangeal joint of it. When passively flexed, against slight resistance he could extend it, but not fully. He had

*continued on next page*

\*Presented at the 137th Annual Meeting of the Rhode Island Medical Society, at Providence, R. I., May 12, 1948.

questionable opponens function. The opponens pollicis muscle, supplied by the median nerve, in large part enables one to forcefully touch the tip of the thumb to the tip of each of the other fingers.

As already stated, the anterior surface of the thumb felt numb and he could not flex the interphalangeal joint. He could not flex either interphalangeal joint of the index finger. Sensation on the radial side of the part of this finger protruding beyond the end of the dressing was markedly diminished or absent. Protruding portions of other fingers functioned all right, except spreading the fingers apart and bringing them together was not possible because of the dressing. When this accident happened, he said he thought he heard something like a shot and wondered if a bone had been broken. Without disturbing the dressing at all, from the story given by him and from the physical examination thus far made, a diagnosis was made of damage to the long flexor of the thumb and to both flexors of the index finger; also a diagnosis of possible damage to motor and certain damage to sensory branches of the median nerve. Operation would be necessary and he wanted it done.

#### *Preparation for Operative Procedure*

Operation would be done in the operating room where any major surgical procedure is carried out, and this is a major surgical problem. An anesthesiologist would be necessary. The choice of anesthesia had best be gas ether or ether alone, and not brachial block or peripheral block or local infiltration anesthesia. Other anesthetics could be used, but gas ether would assure satisfaction. On the way to the ward an x-ray picture would be made and the film would be available very shortly. In the ward his blood pressure was found to be 100/80; heart sounds were clear; no murmurs heard; pulse rate 84; no abnormal chest sounds were heard; respirations 28 per minute; his temperature was 98 deg. F. The laboratory technician obtained blood and a report of examination of this (though not a detailed examination) showed nothing which would contraindicate respiratory anesthesia or surgery.

The patient was transferred to the operating room, having first been seen by the anesthesiologist. He had ready a blood pressure cuff which had been tested and which did not leak, and this was applied about the upper arm without wrinkling the skin. Over this cuff, to hold it securely and evenly, several turns of a cotton bandage were taken. Two hemostats, with rubber covering on the jaws of these, were on the table beside the anesthesiologist. Later on, after the arm had been elevated for three minutes by the clock, the blood pressure cuff would be inflated and the rubber tubes from the cuff would be held securely with these rubber-covered clamps which would be applied by the anesthesiologist. A large

metal tray with an outlet attachment for irrigation purposes was ready. A large container of sterile, warm water was available. The x-ray film was brought in and no fracture was found.

#### *Personnel, Light and Instruments*

Proper instruments for handling delicate structures of the hand were ready, and also instruments for removal of skin for grafting. It is important to have suitable instruments for adequate and safe handling of these delicate structures within the hand. A graduate nurse with student assistant, the anesthesiologist, an intern, a resident, and a surgeon responsible for the operative procedure to be undertaken, are ready to do anything which should properly be done for the repair of this hand. The man was injured a little less than two hours ago. With safety, therefore, so far as the time element is concerned, an extensive procedure may be carried out. Had he been injured eight or ten hours ago, tendon and nerve suturing would not be carried out as a part of this primary operation.

#### *Further Examination Before Cleansing The Wound*

The bandage and that part of the dressing outside layers of gauze covering the wound itself, are removed. It is noted he has no real opponens action. The functions of structures supplied by the radial and ulna nerves are evaluated. He can abduct the thumb one-half normally. Abduction is mediated not only through the radial nerve but in part through the median. Adduction is carried out fairly well. The important function of adduction of the thumb depends largely on the adductor muscle which is supplied by the ulna nerve. He can separate the fingers and bring them together side by side. Sensation on the back of the hand and on the palmar aspect of the fifth and part of the fourth fingers is present. It is equivocal as regards the third finger. The interphalangeal joints of the third, fourth and fifth fingers and the metacarpophalangeal joint of each of these fingers function just about normally. The first and second lumbrical muscles are supplied through branches from the median nerve, and the third and fourth through the ulna nerve. These muscles, not entirely, but in considerable degree, flex the proximal phalanx of the second, third, fourth and fifth fingers. The gauze which was put on by the nurse directly over the wound itself has thus far not been disturbed. The hand and forearm are covered with towels and are held by the intern. The anesthesia is started. The arm is held elevated three minutes by the clock, and then the blood pressure cuff is inflated to 280 mm. of mercury. The arm is lowered. The towels are removed. The surgeon and resident have on gowns and rubber gloves, and cleansing of the

wound is started. Sixty to eighty quarts of warm, sterile water are available, together with bland soap and fine mesh gauze or cotton. About this amount of water for cleansing and irrigation purposes will be needed. The wound itself is uncovered. It is four inches (about 10 cm.) in length. The edges of it are an inch (about 2.5 cm.) apart, and these edges are jagged. The wound itself is again covered with sterile gauze. All surfaces of the hand and forearm except the wound are washed with soap and water which is poured slowly from a container. Hair on the dorsum of the hand and fingers and on the forearm up to the elbow is shaved. Ten minutes are spent in cleansing areas about the wound, and then the wound itself is uncovered. Ten minutes are spent in gently and adequately cleansing this large, gaping wound. No foreign bodies are felt. The blood pressure cuff is deflated, and the amount of free bleeding is noted. The wound is again covered with gauze. Sterile towels are applied. The arm is elevated. The blood pressure cuff is inflated. The surgeon and resident who cleansed the wound have changed gloves and scrubbed, and now actual operative procedures may be started. Further inspection of this wound reveals in about the center of it a shiny, white structure which is a tendon. Lateral to this, toward the thumb, a somewhat yellowish-brown and not glistening white structure is seen, and this structure is identified as a tendon. It is ragged. Two inches of it are readily seen, and the change from normal in the color of it is particularly noted.

The first procedure necessary for the prevention of crippling dysfunction in his hand was to convert this contaminated wound, this potentially and perhaps actually infected wound, into a clean one. This has partly been done. Iodine was not poured into the wound nor any other strong antiseptic solution. Antiseptic solutions, what few there are which will not irritate or further traumatize tissues, may be used. The use of these, however, is not necessary if the wound has been adequately cleansed with a bland soap, lots of soapsuds and warm water applied with cotton or fine mesh gauze. No scrubbing brush is used in this cleansing process. No matter what further operative procedures may be undertaken, one must be, and that is making a closed wound of this open one. It has already been noted that it cannot be made a closed wound until devitalized tissues or tissues which will shortly become devitalized are removed with a sharp knife or a sharp-bladed scissors — scissors which will cut and not further crush tissues.

#### *Debridement and Enlarging The Wound*

Viable muscle is recognized by its color. Later in this procedure, when the blood pressure cuff is deflated, viable muscle will be found to bleed. Non-

viable muscle is recognized by its purplish-red or deep purple-red color and no bleeding from it. Tendon sheaths which are ravelled will quickly lose blood supply. At best aseptic necrosis will follow, and this may lead to infection. Viable tendons are shiny in appearance. Tendons which have been avulsed and pulled and stretched quickly lose their blood supply and change in color. Divided tendon ends retract. Freshly divided nerves do not retract markedly, so that the ends cannot be drawn together nicely provided there has not been an appreciable loss of nerve tissue. A normal nerve is somewhat grey in appearance and dull and not shiny, as is a tendon. The cut end of a healthy, viable nerve bleeds. A tendon and nerve lying side by side differ in appearance. This point alone, if remembered, will aid in the prevention of suturing, for example, the proximal end of a divided median nerve to the distal end of the palmaris longus tendon.

This wound is step by step debrided. This is not a mass debridement. Small segments are removed down to viable tissues. Up to now the wound has been cleansed, and conservative but adequate debridement has been carried out. All parts of the hand and wrist not in the operative field are covered with warm, moist, saline pads. Two large rubber bulb syringes are available, and tissues throughout this procedure will be kept moistened with warm salt solution. The wound itself is further explored. Enlargement of it is found necessary. It is noted that the part of the wound extending toward the ulnar side of the wrist had not gone far enough to involve the ulnar nerve. This nerve lies above and crosses the wrist somewhat diagonally anterior to the anterior carpal ligament. The palmaris longus tendon is identified, and somehow it had not been divided. The long tendon of this muscle may be used at times for a tendon graft. The median nerve, just beneath this tendon at the level of the wrist is identified, and found at this level to be intact. The wound is not enlarged by a mid-line incision extending from the wrist partway up the forearm. It is enlarged by a linear incision along the ulnar aspect of the lower forearm and thence across the wrist at the level of the natural crease marks still present in the skin on the ulnar side. In the palm it is enlarged a little, close to the natural crease mark mesial to the thenar eminence. A definite diagnosis had been made before operation of damage to the long flexor of the thumb and both flexors of the index finger; a diagnosis of injury of sensory branches of the median nerve and possible motor branches had been made. The median nerve is traced down to the anterior carpal ligament, which is a very dense structure. It too had been somewhat injured but not completely divided. It is necessary to divide it in order to thoroughly explore the median nerve which is beneath it. The

*continued on next page*

carpal ligament is divided toward the ulnar side of it, and enough of it is left so that the edges may be sutured later on, and the scar following repair of the ligament will be away from the underlying median nerve and tendons which may be sutured. In the debridement of skin and muscle bundles of the thenar eminence, it was noted that part of the flexor brevis pollicis had been injured and also the abductor pollicis. This latter muscle pretty well overlies the opponens pollicis, and this structure, on examination of it, was found pretty nearly intact. The median nerve is now well seen. The epineurium of it is grasped gently with fine forceps, and the nerve is elevated somewhat. Just anterior to the distal edge of the carpal ligament, a nerve the size of an ordinary wooden toothpick in diameter and coming off the main trunk of the median nerve nearly transversely or slightly obliquely is found divided. This division is very close to the main trunk of the nerve. This is recognized as an important motor branch. To the ulnar side of it two other nerves are found divided. These probably are sensory nerves but may include filaments which innervate the first and second lumbrical muscles. Careful handling of the nerve coverings and mobilizing these nerves permit nerve ends to be brought together very well. Definite nerve bundles within the epineurial sheaths are easily seen. Very fine silk sutures on atraumatic needles will be used in the epineurium to bring the nerve ends together, and sutures will not go through nerve bundles. The end of the tendon which was noted changed in color is definitely identified as the proximal end of the flexor longus pollicis tendon. This is the only structure which can flex the distal phalanx of the thumb. The distal end of this tendon is found without difficulty. The proximal end is frayed and jagged, and the tendon sheath is torn and absent in two or three places. Next, the ends of the divided flexor tendons of the index finger are found. The laceration in the sublimis tendon is proximal to the point where the tendon divides; the laceration in the deep tendon is proximal to that in the sublimis. The first and second lumbrical muscles are identified. Lumbrical muscles are found without difficulty. Each of these four muscles is attached proximally to a deep flexor tendon. The divided ends of the flexors of the index finger are separated between one-half to three-quarters of an inch (about 1 to 1.5 cm.). These ends can be brought together without undue tension and without undesirable full flexion of the finger. Both the superficial and deep flexor will be sutured. The ends of the divided flexor of the thumb could not possibly be brought together after resection of non-viable portion of this tendon. It is remembered again this man's hand was wedged between a moving wire rope and a pulley. It is always important to know how the acci-

dent happened and where; a relatively clean machine shop or an accident on a tractor on the farm. The operative procedures carried out thus far, including the washing of the wound and debridement, have taken an hour and a quarter. After the blood pressure cuff is deflated, twenty minutes or more will be required for meticulous ligation of all bleeding points. A skin graft is necessary in order to safely close this wound. It will take most of an hour for removal of skin from the thigh and attaching it to the skin edges in the hand. Forty minutes may be required for suturing nerve coverings and for suturing the tendons of the index finger. Fully three hours, therefore, will have gone by before operation is completed. The blood pressure cuff will have been on the arm and inflated to 280 mm. of mercury most of that time. That is perfectly all right. It is unnecessary, if the blood pressure cuff was applied properly, to deflate it at the end of an hour or two hours. An ordinary blood pressure cuff is used. A canvas-covered, narrow cuff with zipper attachment is not used, nor is a piece of rubber tubing. Frequently in the course of a year an inflated blood pressure cuff remains on the arm for three or four hours in reconstructive, operative procedures and without harm to tissues.

#### *Approximation of Viable Ends of Divided Structures*

The flexor tendons of the index finger are sutured. Many fine silk sutures are taken in the covering of nerves, and the ends of these are brought together. No attempt will be made at this operation to establish continuity of the long flexor of the thumb, important though it is. A tendon lengthening procedure would not be satisfactory. A tendon graft would be the best procedure. Possibly the palmaris longus tendon could be used. A peroneal tendon from the foot could be used better to fill in this marked defect in the flexor longus pollicis. Adequate blood supply is necessary for primary wound healing. Adequate blood supply of a tendon is very necessary for good tendon healing. This is not only true in the so-called "ordinary tendon suture cases," but it is certainly true as regards healing of tendon grafts. Timidity is not the deterring factor in decision against attempt to repair the flexor longus pollicis tendon. If a tendon graft were carried out and if, as very well might happen, inadequate blood supply resulted in aseptic necrosis or some degree of slough, then the work already satisfactorily carried out on nerves and the tendons of the index finger would terminate in a very unfortunate end result. It is, of course, recognized that the sooner after injury structures are properly brought together, the better the end result will be. It is also recognized that doing more than must be done or more than can safely be done will



end with serious dysfunction. A tendon graft, when carried out as a separate elective procedure, in not better than one-half of our tendon graft cases, results in a one-half to two-thirds normally functioning finger — never a perfect result — and in something less than one-half of the cases, the end result is not better than a one-third normally functioning finger. In four of our cases the end result following tendon graft has been a finger with no usable motion in it. The reasonably good end result which we have a right to expect in this case following nerve and tendon suturing might very well be jeopardized were a tendon graft procedure carried out on the flexor longus pollicis tendon.

Knowledge of how these injured tissues heal and the necessity for adequate blood supply precludes the use of any foreign substance about the level of any of these sutures lines, substances such as strips of tantalum or vitallium. The type of tendon suture which may be decided upon is the type which works best for the experienced surgeon who is doing the work. One cannot say that wire sutures should be used in a great percentage of the cases or that nylon sutures should be used entirely. One can say that catgut should not be used for tendon suturing. Our experience has shown that silk sutures are very dependable.

Thus far in this man's case the wound was:

1. Adequately cleansed.
2. Adequately debrided.
3. All work was done in a bloodless field.
4. Ends of divided structures were not brought together under tension, nor was it necessary to place the index finger in a position of such forced flexion that return to usable function would not follow.
5. The divided ends of the flexor longus pollicis tendon were not sutured to adjoining structures. They were allowed to lie naturally. They may, without difficulty, be found if and when further operative procedure is undertaken.
6. Upon completion of suturing, before attaching the skin graft which was obtained from the thigh, the blood pressure cuff was deflated and bleeding points were meticulously ligated.

Types of graft for filling defects in wounds differ in different cases. At times in the palm a rope graft is necessary. Some very competent surgeons have found that a rope graft may be carried out as a part of primary operation. A rope graft was not found necessary in this case. Very rarely in our hands is a rope graft made a part of a primary surgical procedure after tendon and nerve suturing. In this man's case an intermediate thickness graft of skin was applied. If a rope graft had been considered desirable in this case, it would not have been done as a part of primary operation. Possibly a further operative procedure will be necessary for

restoration of a usable degree of function in the thumb.

It is stated again at the risk of being unnecessarily repetitious — a contaminated wound must be made clean; an open wound must be converted into a closed one. Other procedures, depending upon the condition of tissues injured and methods available for establishing continuity of these tissues, may and should be carried out when safety permits. It is not advisable in a certain percentage of badly lacerated hands to attempt repair of all injured structures at the first operation.

### *The Dressing*

It is correct to say that the application of the dressing ranks in importance with operative procedures. Adequate hemostasis, ever so carefully attended to, and a proper pressure dressing, will prevent hematoma formation. Hematoma might be followed by infection or in any event would prevent primary wound healing. The dressing on this man's hand is very carefully applied. Fluffed gauze is packed carefully between the fingers and on the palm and on the dorsal aspect of the hand. This is reinforced with machinists' waste or sea-water sponges used outside the fluffed gauze. This dressing assures even pressure which is necessary. Strips of vaseline gauze or other materials which may cause skin maceration are not used. In all probability, this dressing applied today will not require removal for ten to fourteen days. The fingers, other than the index finger, are allowed to rest, as far as possible, in physiologically functioning position. The index finger is held securely in flexion. Immobilization of the elbow joint in certain cases, and in this case, is necessary. After the dressing is applied, the extremity must be rested on a properly padded splint. It may be made of wood or aluminum or a plaster of Paris mold. An aluminum splint made to fit this patient's forearm and hand would be ideal. It does not, however, make too much difference as to the materials of which a splint is made. It does make great difference as to how a splint is applied.

The anesthetist, during this procedure, attended to the administration of glucose solution. He accompanied the patient to the ward. Post-operative orders were written including tetanus toxoid and further blood examinations. His condition will be watched carefully and blood, if necessary, will be administered. Following a lengthy hand operation, a patient may show signs of shock. The surgeon, or someone well trained and who knows the importance of detail, will see to it that this arm is maintained properly elevated for three or four days. It must be so elevated that at no time does it become dependent with ensuing edema, which would prevent healing of the wound or certainly delay it.

*continued on next page*

The dressing may be changed in four or five days, if one wants to be sure that there is no maceration of skin edges which would also delay wound healing. It will have to be changed if he complains of pain which persists or is throbbing in nature. A temperature of above 99.6 F. or any throbbing pain would not be expected in this case. As already noted, this dressing applied today probably will not be removed for ten to fourteen days. The dressing may be changed in the ward or in a room set apart for dressings. A mask should cover the surgeon's nose and mouth when the first dressing is done. Quite often it is necessary to come pretty close to the hand in order to see and remove fine sutures in the skin. One should not breathe into this healing wound. Knowledge of how tendons and nerves heal would not permit this man's fingers or wrist being moved for three weeks' time. At the end of four weeks he will be instructed by the surgeon what motions may and what motions must not be carried out. After removal of the splint at the end of four and a half to six weeks, he will be instructed how to apply the splint or have it applied during sleeping hours. At times, when the patient is asleep, an unprotected hand may be injured.

It is recognized that some competent surgeons, in the handling of this case, would entirely disagree with the treatment of the injured long flexor of the thumb.

In this case we would expect primary wound healing, no edema and no infection. We would expect pretty close to two-thirds return to normal function in the index finger. We would expect return of sensation to the sides of the thumb and index finger. We would expect one-half to two-thirds return of motor function. Sensation should become normal in the third finger. We would explain to this patient how he might get along fairly well though unable to flex the joint of his thumb. Flexion of the interphalangeal joint of the thumb aids in opponens action. A tendodesis could have been done as part of this procedure. That would result in a permanently, partially flexed position of the distal phalanx. This in turn would make more useful his thumb as a whole than with the thumb in straight angle position or with hyperextension of the terminal phalanx. Our end results are evaluated on how much a person can do following operation and properly directed after care as compared with function before accident and injury. The hand primarily enables one to grasp and to hold on to and use an object. We would expect this patient injured in this accident this morning to be able to return to work in the shipping room of the machine shop in five to six months' time. Following

his return to work and after he finds out what he will be able to do with this hand as a whole, advice as to further operation would then be given.

Nothing presented in this address is new. It has perhaps taken an unnecessarily long period of time to describe details in the management of this problem. Painstaking attention to all of these details herein noted will aid in wound healing and restoration of function.

One might wonder how this accident could have happened as stated without injury to other structures. However, for the purposes of description no other structures were found injured than noted above. It is well recognized that more than one operative procedure is frequently found necessary in the management of colon, thoracic, urological and other problems. It is also recognized or should be that more than one operation may be necessary in the safe management of a seriously injured hand. In our work in hand surgery we have been considerably aided by the writings of others. Much can be learned from the written experiences of others. More can be learned by watching others at work and by talking with them; and learning from them the real end results of procedures they consider worthwhile.

A new index volume of "Surgery, Gynecology and Obstetrics" will be obtainable within a few weeks. Every surgeon will probably find this volume a necessity. It should be in the library of every hospital where interns and residents are trained. I am informed there is hardly a branch of hand surgery which is not covered by articles listed in this index.

At the Carney Hospital in Boston, as part of the educational program for interns and residents, we refer frequently to the teachings and follow as far as we can the excellent procedures carried out by Koch, Mason, and Allen of Chicago in the management of hand injuries.

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## PNEUMONIA NOT RESPONDING TO PENICILLIN

MORGAN CUTTS, M.D.

The Author. *Morgan Cutts, M.D., of Providence.*  
*Visiting Physician, Rhode Island Hospital.*

THE THERAPY of pneumonia with penicillin has been so successful and is now so generally employed that it seems unnatural whenever a patient with pneumonia does not improve with this treatment.<sup>1</sup> Occasional failures however still occur. The present investigation is an attempt to discover, if possible, in what way these cases differ from the great majority.

During a two-year period, from November 1, 1945 to November 1, 1947, there were at the Rhode Island Hospital 811 autopsies, and of these 41 had a primary diagnosis of pneumonia at the time of death. From this number were eliminated those dying shortly after admission or otherwise inadequately treated, those clinically diagnosed as primary atypical (virus) pneumonia, those occurring in infants and children under 12, and those with some complication such as cardiac failure or empyema recognized during life which might be expected to render penicillin treatment ineffective. There remained only seven cases that represented instances of pneumonia in adults in whom failure of penicillin therapy was unexplained clinically and in whom autopsies were obtained. A brief analysis of these seven cases follows.

B. K. (#412529) — This 67-year-old man had clinical and X-ray evidence of pneumonia in both lower lobes. White blood count was 34,000 with 90% polymorphonuclears. Pneumococci were typed in the sputum. His temperature promptly fell to normal with penicillin, but the white blood count remained elevated. He failed to improve clinically and died on his twentieth hospital day. Blood urea nitrogen rose from 80 to 100 during his illness.

At autopsy a right-sided empyema and lung abscesses in the right lower lobe were found which had been unsuspected during life. The microscopic sections showed in addition, organizing pneumonia in both lower lobes. Polycystic kidneys accounted for the high blood urea nitrogen.

G. C. (#404905) — This was an 80-year-old man in whom no adequate history could be obtained. X-ray of his chest showed no definite

pathology and the diagnosis of pneumonia rested chiefly on the finding of rales throughout both lung fields. No pneumococci was obtained from the sputum and blood culture was sterile. He also had arteriosclerotic heart disease and auricular fibrillation. White blood count was 15,000 with 63% polymorphonuclears. His temperature varied between 100 and 104 uninfluenced by penicillin, and he died on the ninth hospital day.

Autopsy confirmed the diagnosis of bronchopneumonia which in microscopic sections resembled the ordinary type of bacterial pneumonia. No further information was gained as to the exact nature of the infecting organism nor of the reason for failure of penicillin treatments.

A. J. (#414654) — This 73-year-old man could give no adequate history. There were signs and x-ray evidence of patchy bronchopneumonia at both lung bases, and one x-ray showed slight pleural effusion on both sides. White blood counts was 6,000 with 90% polymorphonuclears. Blood culture was sterile. One sputum showed no acid fast organisms. He ran a high irregular fever (to 104°) uninfluenced by penicillin and died on the fourteenth hospital day.

Autopsy showed multiple caseous areas in the lungs and lymph nodes suggestive of tuberculosis, and the microscopic sections showed a picture characteristic of tuberculous pneumonia.

A. H. (#417155) — This 31-year-old woman who had previously been in good health developed a fulminating illness diagnosed as lobar pneumonia three days before admission. There were physical signs and x-ray evidence of patchy consolidation in both lower lobes and less so in the upper lobes as well. Pneumococci were typed in the sputum. Blood culture was sterile. White blood count was 15,000 with 84% polymorphonuclears. She ran a high irregular fever from 101 to 104°, uninfluenced by penicillin and died after four days in the hospital.

Autopsy showed a peculiar type of pneumonia characterized chiefly by changes in the interstitial tissues. The alveolar septa were much thickened and contained many mononuclear cells. The alveoli contained in places a serous fluid and were lined with hyaline pink-staining membranes. The epithelium of the smaller bronchi had been desquamated and the lumen contained a polymorphonuclear

*continued on next page*



exudate. About the smaller bronchi the interstitial tissues were densely packed with mononuclear cells. This picture is compatible with the so-called primary atypical pneumonia and not with the ordinary pneumococcal pneumonia. (See Plate 1)

*R. G. (#107041)*—This 34-year-old man, previously in good health, entered the hospital on the third day of an illness diagnosed as lobar pneumonia. He was stuporous on admission, temperature was 103+, white blood count 17,000 with 92% polymorphonuclears. X-ray was suggestive of pulmonary edema or bronchopneumonia, more on the right side. One blood culture showed streptococcus viridans. Penicillin was completely ineffective, fever continued and he died on his third hospital day.

Autopsy showed diffuse pneumonia of all lobes which in microscopic sections proved to be characteristic of an acute interstitial pneumonia similar to that described in the previous case. There were also some areas showing a polymorphonuclear exudate in the alveoli.

*P. C. (#15560)*—This 60-year-old man had severe lobar pneumonia involving the entire right lung and a positive blood culture (pneumococcus, Mixture A). White blood count was 32,000 with 93% polymorphonuclears. He seemed to improve temporarily with penicillin and his temperature dropped from 103.6° to about 101°. On the eighth day, however, his temperature rose again and there was evidence of extension of his pneumonia to the other side. Coincidentally with this, hemolytic staphylococcus aureus was found as the predom-

inating organism in his sputum. He died on his nineteenth hospital day.

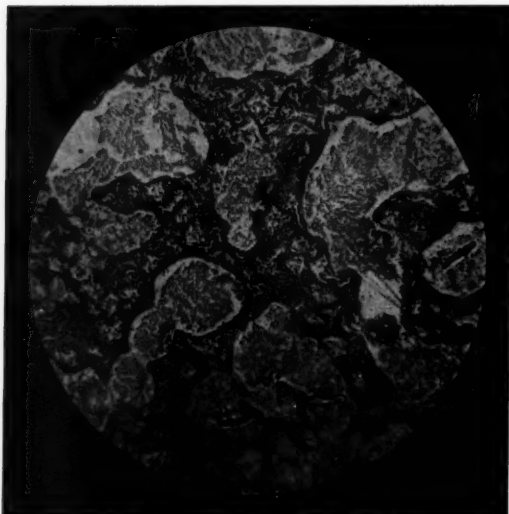
Autopsy showed widespread pneumonia, resembling microscopically the ordinary bacterial type, and in addition a purulent pericarditis. The post-mortem bacteriology was inconclusive, for though staphylococcus aureus was found on culture of the lung, no organisms were seen in direct smear, and bacterial stains of sections showed only occasional gram positive cocci in pairs. Evidently the unsuspected pericarditis was partly responsible for failure of treatment, whether in addition, a penicillin resistant organism was involved cannot be determined.

*A. S. (#16006)*—This 65-year-old man entered the hospital after a four days' illness characterized by cough and fever. There were signs of pneumonia over the left lower lobe, and x-ray was consistent with this diagnosis. White blood count was 13,000 with 77% polymorphonuclears. His sputum showed no significant organisms, and blood culture was sterile. His temperature dropped with penicillin treatment, but the patient remained stuporous and died on the fifth hospital day.

At autopsy extensive bronchopneumonia of both lower lobes was found. Smears taken from the lung showed rare gram positive cocci and culture showed a hemolytic staphylococcus aureus, coagulase positive, in addition to other organisms. Microscopically small abscesses were found in the areas of bronchopneumonia. Bacterial stains of these sections showed gram positive cocci in small groups and pairs, morphologically staphylococci. This then represents a case of pneumonia caused by a resistant organism probably a staphylococcus. (See Plates 2 and 3)

**DISCUSSION:** of the seven cases some explanation for their lack of improvement with penicillin was found in six at post mortem. In one empyema and lung abscess, and in another a purulent pericarditis represent complications which are known to be unaffected by intramuscular penicillin. In the case of the pericarditis, there may have been an added factor, perhaps a resistant organism, for there was only a small amount of pericardial fluid (150 cc.), no pericardial adhesions, and the microscopic slides showed a rather recent superficial pericarditis, hardly enough by itself, to account for the patient's downhill course and death. The case of tuberculosis is a useful reminder that one cannot dismiss this as a possibility because of one negative sputum. It is also interesting to note that the lowest white blood count in the group occurred in this case.

The two cases showing the acute interstitial pneumonia are quite similar in many respects. In both the disease was fulminating, death occurring in seven or eight days. Both patients were relatively young, 31 and 34 years. Both had leukocytosis of



**PLATE 1**—The alveolar septa are wide due to edema and a cellular exudate. The alveolar spaces are filled with a granular precipitate, and are lined by a hyaline membrane. (approx. x100)

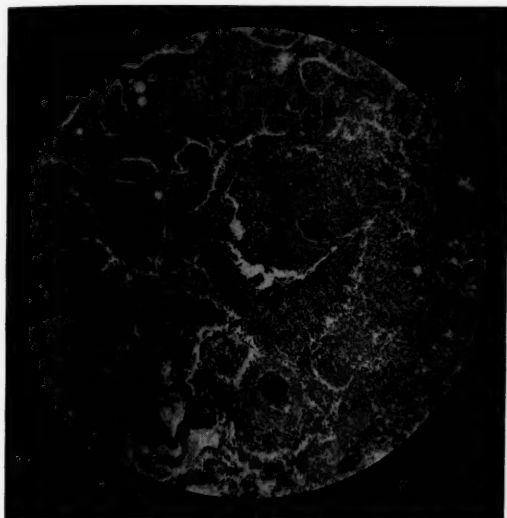


PLATE 2—A bronchiole is shown with partially desquamated epithelial lining. Adjacent alveoli are filled with a polymorphonuclear exudate. (approx. x100)

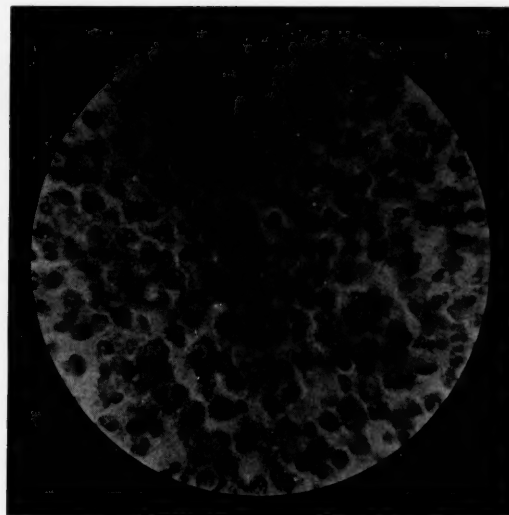


PLATE 3—Gram Stain. In the center of the field are intracellular cocci. (approx. x950)

moderate degree only. The diagnosis was confused rather than clarified by the bacteriological studies, as a pneumococcus was found in the sputum of one and streptococcus viridans in the blood of the other. Both cases show in microscopic sections an acute interstitial pneumonia of the type described in fatal cases of primary atypical (virus) pneumonia.<sup>2,3,4</sup> The first (A. H.) shows nothing else; the other (R. G.) shows also some areas resembling bacterial pneumonia. This association of secondary bacterial invasion is often noted, particularly in the cases who survive longer.

Finally there is one case in which there is good evidence that a staphylococcus aureus was the causative agent. All the post mortem bacteriology, the bacterial stains of the microscopic sections, and the type of pneumonia with polymorphonuclear exudate and small scattered abscesses are consistent with this diagnosis. It is known that staphylococci are less susceptible to penicillin than pneumococci and that some are for all practical purposes completely resistant, either because of the production of penicillinase or through the development of a new strain by mutation.<sup>5</sup> It seems probable that the presence of such a resistant strain is the explanation of the failure of penicillin treatment in this case.

**SUMMARY AND CONCLUSIONS:** A group of seven cases of pneumonia in whom failure of penicillin therapy was unexplained clinically, were analyzed from the point of view of their post-mortem findings. Partial or complete explanations for this failure of therapy are pointed out in six cases.

*The author is indebted to Dr. Robert Williams, Assistant Pathologist, Rhode Island Hospital, for his advice and for the descriptions of the photomicrographs.*

<sup>1</sup> Conquest of Pneumonia. Statistical Bulletin Metrop. Life Ins. Co. No. 10 26 8-10 Oct. 1945.

<sup>2</sup> Golden, Alfred: Pathologic Anatomy of "Atypical Pneumonia Etiology Undetermined," Acute Interstitial Pneumonitis—Arch. Path 38-187-202, Oct. 1944.

<sup>3</sup> Kneeland, Yale Jr. and Smetana, Hans F. Current Bronchopneumonia of Unusual Character and Undetermined Etiology. Bull. Johns Hopkins Hosp. 67 229-267, Oct. 1940.

<sup>4</sup> Parker, F. Jr., Jolliffe, L. S., Barnes, M. W., and Finland, M. Pathologic Findings in Lungs of 5 Cases from which influenza virus was isolated, Am. J. Pathology 22 797-819, July, 1946.

<sup>5</sup> Spink, Wesley W., and Ferris, Viola. Penicillin-Resistant Staphylococci Journal of Clin. Investigation, 26 379-393, May, 1947.

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**NEXT MEETING OF THE  
PROVIDENCE MEDICAL ASSOCIATION  
MONDAY, NOVEMBER 1.**

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# The RHODE ISLAND MEDICAL JOURNAL

*Owned and Published Monthly by the Rhode Island Medical Society,  
106 Francis Street, Providence, Rhode Island*

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## THE NATIONAL MENTAL HEALTH ACT

We are all fairly familiar with the magnitude of the problem of mental illness in this country, and with the great economic loss resulting from such illness. It costs the country approximately a billion dollars a year—twenty-five million annually for state mental hospitals, one hundred million dollars for veterans administration hospitals, and the balance in the reduced earning power of those persons under treatment.

Under the National Mental Health Act the U. S. Public Health Service was authorized to spend, in the first year, four and a half million dollars to improve the mental health of the people. In July, 1947, when funds were appropriated, the program started. It has three major parts: (1) More mental health clinics and other preventive services will be established. (2) Training in psychiatry will be extended. There is need for four times as many trained psychiatrists as are now available to extend the mental health clinics and to conduct research proposed under the Act. It is estimated that \$1,100,000 should go to fifty-one universities and hospitals, not only to train more psychiatrists, clinical psychologists, psychiatric nurses and social workers, but also to teach medical students the fundamentals of psychiatry. (3) Research in the field of mental health will be expanded. At the

present time only one dollar is spent on mental health research for every one hundred dollars spent on hospitalizing the mentally ill.

There are many gaps in the scientific knowledge of mental illness. Under this national Act it is planned to establish a National Mental Health Institute as part of the National Health Institute being built at Bethesda, Maryland. In administering the Act the United States Public Health Service is advised by a group of psychiatrists, psychologists, social workers and nurses. This advisory group comprises outstanding leaders in the profession who will pass upon all requests for grants-in-aid from the states, for universities, from training centers, and from research workers.

The 80th Congress did not grant the full appropriation requested by the Public Health Service for the extension of this work. Only \$300,000 more was voted in 1948 than the previous year. Thus many worthwhile requests for aid from clinics and teaching centers could not be granted.

To make further advances in the prevention and the cure of mental illness many more psychiatrists and other workers must be trained—literally thousands of them—or else there can be little extension of training facilities; and without trained workers very little development of treatment in

out-patient clinics or in the mental hospitals can be expected. The Rhode Island state department of social welfare has applied for a grant, which has been approved, for the extension of treatment facilities for children, and at the present time trained personnel for a new clinic here is being sought.

Every member of the profession knowing the needs in this field should do everything in his power to further progressive and constructive programs in this phase of public health work.



JOHN E. RUISI, M.D.  
1892 — 1948

DR. JOHN E. RUISI, F.A.C.S., prominent surgeon, and a civic leader in Westerly for many years, died on May 27, at the age of 56.

A resident of Westerly since 1906, Dr. Ruisi graduated from the high school there prior to his matriculation at Tufts Medical School. He was graduated a doctor of medicine in 1917 and then interned at the Carney hospital in Boston, and later at the Metropolitan hospital in New York City.

During World War I he served 14 months with the medical corps of the American Expeditionary Forces, holding the rank of Captain. He was discharged with the commission of Major, a rank he subsequently held in the Medical Reserve Corps.

He was senior surgeon at Westerly hospital, and a consulting surgeon on the staff of St. Joseph's hospital and Roger Williams hospital, in Providence, and the South County hospital in Wakefield.

Dr. Ruisi was president of the Dante Prize Society which annually awards scholarship prizes to outstanding students in the Italian classes at Westerly high school. He was a member of the Westerly Cooperative Concert Group, and Narragansett Council, Knights of Columbus.

He was also a charter member of the Westerly Lions Club, and a leader in youth movements, especially the Boy Scouts by whom he was presented a bronze statuette in 1947 for "unselfish and outstanding service to the Boy Scouts of the Quequatuck District."

Besides his wife, Renata Flandina Ruisi, his survivors are two sons, Joseph and Edward Anthony, a daughter, Liboria Renata, and two brothers, Leo M. and Anthony R. Ruisi.

If you are not listed correctly in the Annual Roster (see page 620) notify the Executive Office immediately.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC.,  
REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912,  
AS AMENDED BY THE ACTS OF MARCH 3, 1933, AND JULY 2, 1946  
of *Rhode Island Medical Journal*, published monthly at Providence,  
Rhode Island, for October, 1948.  
State of Rhode Island)  
County of Providence) ss.

Before me, a Notary Public in and for the State and county aforesaid, personally appeared John E. Donley, M.D., who, having been duly sworn according to law, deposes and says that he is the Associate Editor of the *Rhode Island Medical Journal* and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily, weekly, semiweekly or triweekly newspaper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Acts of March 3, 1933 and July 2, 1946 (section 537, Postal Laws and Regulations), printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, Rhode Island Medical Society, 106 Francis Street, Providence 3, R. I.; Editor, Peter Pineo Chase, M.D., 106 Francis Street, Providence 3, R. I.; Managing Editor, John E. Farrell, 106 Francis Street, Providence 3, R. I.; Associate Editor, John E. Donley, M.D., 106 Francis Street, Providence 3, R. I.

2. That the owner is Rhode Island Medical Society, 106 Francis Street.

3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

JOHN E. DONLEY, M.D., Associate Editor

Sworn to and subscribed before me this 22nd day of September, 1948.

JOHN E. FARRELL

(My commission expires June, 1950)

[SEAL]



**THE JOHN F. KENNEY ANNUAL CLINIC OF  
THE MEMORIAL HOSPITAL INTERNES' ALUMNI ASSOCIATION**  
at The Memorial Hospital, Pawtucket, Rhode Island on  
Wednesday, November 10, 1948

**MORNING SESSION (9:30 a.m. to 12:55 p.m.) HENRY B. MOOR, M.D., *Chairman***

9:30- 9:35	GREETINGS	J. LINCOLN TURNER, M.D., <i>President Internes' Alumni Association</i>
9:40- 9:55	"DOUBLE KIDNEY — REPORT OF TWO CASES" "UNUSUAL COMPLICATION OF URETEROLITHOTOMY"	FREDERICK A. WEBSTER, M.D. HARRY M. KECIJIJIAN, M.D.
10:00-10:20	"UNUSUAL INJURIES ABOUT THE KNEE JOINT"	JOHN H. GORDON, M.D. G. EDWARD CRANE, M.D.
10:25-10:45	"SPONTANEOUS PNEUMOTHORAX"	JOSEPH N. CORSELLO, M.D.
10:50-11:05	"RUPTURED INTERVERTEBRAL DISCS — DIAGNOSIS AND TREATMENT"	LAURENCE A. SENSEMAN, M.D. <i>Collaborators:</i> HANIBAL HAMLIN, M.D. HOWARD UMSTEAD, M.D.
11:10-11:30	"GALL BLADDER DISEASE IN A COMMUNITY HOSPITAL"	ORLAND F. SMITH, M.D.
11:35-11:55	"MALIGNANT LYMPHOMA — PATHOLOGY AND X-RAY THERAPY"	ROBERT J. WILLIAMS, M.D. EMANUEL W. BENJAMIN, M.D.
12:00-12:30	"CONGENITAL ANOMALIES OF NEWBORN"	EARL F. KELLY, M.D. WALTER J. DUFRESNE, M.D. JOSEPH H. DOLL, M.D. HRAD H. ZOLMIAN, M.D.
12:35-12:55	QUESTION AND ANSWER PERIOD	

NOTE: *Written questions will be forwarded to the chair during morning session.*

**AFTERNOON SESSION (2:00 to 5:00 p.m.) JACOB GREENSTEIN, M.D., *Chairman***

GREETINGS

JOHN F. KENNEY, M.D., *Honorary President,  
Internes' Alumni Association*

**SUBJECT: THE TREATMENT OF PEPTIC ULCER**

**CLINICAL PATHOLOGICAL CONFERENCE**

**Part I**

*Presiding:* CLAUDE FORKNER, M.D., Associate Professor of Clinical Medicine,  
Cornell University Medical College.  
(summary of case to be presented will be distributed)

**Part II**

**"MEDICAL ASPECTS OF TREATMENT OF PEPTIC ULCER"**

THOMAS P. ALMY, M.D., James Ewing Associate Professor of Neoplastic  
Diseases, Cornell University Medical College

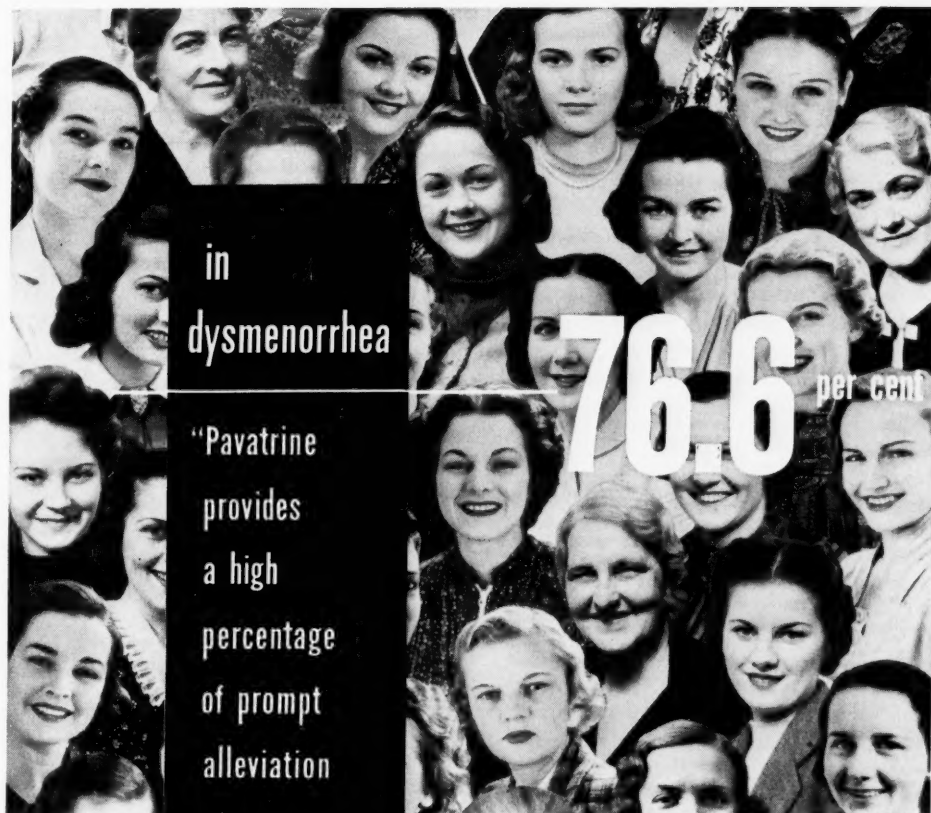
**"TREATMENT OF PERFORATED PEPTIC ULCER.  
TREATMENT OF PEPTIC ULCER WITH OBSTRUCTION."**

S. W. MOORE, M.D., Associate Professor of Clinical Surgery, Cornell Uni-  
versity Medical College.

**"TREATMENT OF BLEEDING ULCER.  
SURGICAL MANAGEMENT OF THE ULCER WITH  
INTRACTABLE PAIN.  
VAGOTOMY IN THE SURGICAL TREATMENT OF  
PEPTIC ULCER."**

FRANK GLENN, M.D., Professor of Surgery, Cornell University Medical College.

SUMMATION: DRS. CLAUDE FORKNER and FRANK GLENN



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\*Viggiano, F. A.: Dysmenorrhea in Industry—  
Treatment with a New Antispasmodic,  
Indust. Med. 15:632 (Nov.) 1946.

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## MEDICAL LIBRARY NOTES

THE LIBRARIAN of the Rhode Island Medical Society announces the recent addition of the following books:

### ALLERGY

Warren T. Vaughan—*Practice of Allergy*. Revised by J. Harvey Black. 2nd ed. St. L., 1948.

### CANCER

*Standards for the Diagnosis and Treatment of Cancer* by The Cancer Committee of the Iowa State Medical Society. Iowa City, 1948.

### DERMATOLOGY

Francesco Ronchese—*Occupational Marks and other Physical Signs. A Guide to Personal Identification*. N. Y., 1948.

### ENDOCRINOLOGY

C. Donnell Turner—*General Endocrinology*. Phil., 1948.

### HISTORY OF MEDICINE

Cecilia C. Mettler—*History of Medicine. A Correlative Test, Arranged According to Subjects*. Edited by Fred A. Mettler. Phil., 1947.

### OPHTHALMOLOGY

*Collected Reprints from the Wilmer Ophthalmological Institute of the Johns Hopkins University and Hospital*, Vol. VIII, July 1945 to December 1947. Balt., 1948.

### PSYCHIATRY

Sigmund Freud—*The Basic Writings of Sigmund Freud*. Translated and Edited, with an Introduction, by Dr. A. A. Brill. N. Y., 1938.

### REHABILITATION

Cároline H. Elledge—*The Rehabilitation of the Patient*. Social Casework in Medicine. Phil., 1948.

### WRITING

Morris Fishbein & Jewel F. Whelan—*Medical Writing. The Technic and the Art*. 2nd ed. Phil., 1948.

### DIRECTORIES

*American College of Surgeons*. 1947-1949 Year Book. Chic., 1948.

*Polk's Providence City Directory*, Vol. CVIII, 1948.

## GIFTS

Gifts of books and periodicals were received from Doctors Hammond and Mowry, Mr. Farrell and from the Brown University Library.

## PHYSICIAN WANTED

A Rhode Island manufacturing company with a large plantation on the Island of Eleuthera in the Bahamas is seeking a doctor to practice there. The company employs a number of white persons and a much larger number of colored natives, the total being about 200 and their families. In addition there are other settlements on the island that have been served until recently by a doctor who has now returned to England. The company is prepared to pay a retainer over and above the fees which would be collected from the patients, and it believes that any physician desiring to retire to live in a pleasant year-round climate would find Eleuthera most attractive as a place of residence. Any physician interested in this proposition is requested to communicate with the Executive Secretary of the Society.



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**CANCER CONFERENCE FOR RHODE ISLAND PHYSICIANS**

Under Auspices of

Rhode Island Medical Society, Rhode Island State Department of Health, and  
Rhode Island Cancer Society

WEDNESDAY, NOVEMBER 17, 1948

Auditorium, Rhode Island Medical Society Library

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*Presiding: JOSEPH C. O'CONNELL, M.D., President, Rhode Island Medical Society*

10:30 a.m. THE R. I. STATE HEALTH DEPARTMENT CANCER PROGRAM

*Speaker: WALTER BATCHELDER, M.D., Medical Director, Division of Cancer Control,  
R. I. State Department of Health.*

11:00 a.m. THE TUMOR CLINIC

*JOHN F. KENNEY, M.D., Former Chief of Medical Service and Director of Laboratories and  
Tumor Clinic at Memorial Hospital.*

11:30 a.m. THE CANCER DETECTION CLINIC

*HERMAN C. PITTS, M.D., President, Rhode Island Cancer Society.*

12:00 Noon CANCER OF THE BREAST

*Speaker: LELAND MCKITTRICK, M.D., Clinical Professor of Surgery, Harvard.  
Surgeon, New England Deaconess Hospital.*

12:30 p.m. LUNCHEON (Basement Dining Room)

2:00 p.m. CANCER OF THE COLON AND RECTUM

*Speaker: EDWARD J. OTTENHEIMER, M.D., Surgeon in chief,  
Windham Community Memorial Hospital.*

2:30 p.m. CANCER OF THE STOMACH

*Speaker: GEORGE PACK, M.D., Attending Surgeon, Memorial Hospital for Cancer and Allied Diseases;  
(N.Y.); Clinical Professor of Surgery, New York Medical College.*

3:00 p.m. CANCER OF THE SKIN

*Speaker: B. EARL CLARKE, M.D., Pathologist and Director of Laboratories, St. Luke's Hospital, N.Y.C.;  
Former Director of Tumor Clinic, R. I. Hospital; Member, Board of Directors, American Cancer  
Society.*

3:30 p.m. CANCER OF THE NOSE AND NASAL SINUSES

*Speaker: LEROY A. SCHALL, M.D., Professor of Laryngology, Harvard Medical School;  
Chief, Dept., Otolaryngology, Mass. Eye and Ear Infirmary.*

4:00 p.m. CANCER OF THE UTERUS

*Speaker: GEORGE W. WATERMAN, M.D., Chief, Gynecology Staff, Rhode Island Hospital.*

4:30 p.m. ROUND TABLE DISCUSSION. Visiting speakers answering questions.

General discussion from the floor.

5:30-6:30 p.m. SOCIAL HOUR AT THE BILTMORE HOTEL

6:30 p.m. DINNER AT THE BILTMORE HOTEL

*Speaker: DR. CLARENCE COOK LITTLE, Director Roscoe B. Jackson Memorial Laboratory*

TOPIC: "Advances in Cancer Research."

# ROSTER OF FELLOWS of the RHODE ISLAND MEDICAL SOCIETY October 20, 1948

Where District Society is not listed after the name the Fellow is a member of the Providence Medical Association.

Telephone numbers have been checked with the latest available directories and every effort has been made to insure accuracy.

Any errors in this listing should be reported immediately to the Executive Office of the Society for correction and special listing in the November issue of the JOURNAL.

## A

Abbate, Rocco ( <i>Kent</i> ) 873 Warwick Avenue, Lakewood	HO 3323
Abramson, Lewis, 280 Broadway, Newport	Newport 5400
Adams, Frank M., 122 Waterman Street, Providence 6	GA 4183
Adelman, Maurice, 209 Angell Street, Providence 6	DE 9129
Adelson, Samuel, ( <i>Newport</i> ) 135 Touro Street, Newport	Newport 784-W
Agnelli, Freeman B., ( <i>Washington</i> ) 25 Elm Street, Westerly	Westerly 2507
Alexander, George H., Butler Hospital, Providence 6	GA 3456
Allen, Reginald A., 223 Thayer Street, Providence 6	GA 5552, GA 1600
Allin, Francis E., 2247 Mineral Spring Avenue, Centerdale 11	CE 0154-W
Angelone, C. Thomas, 872 Park Avenue, Cranston 10	HO 3900
Angeloni, Tito, 406 Branch Avenue, Providence 4	DE 6676
Appleton, Paul, 35 Taber Avenue, Providence 6	PL 1434
Archetto, Angelo, 964 Cranston Street, Providence 9	WE 3739
Arciero, Michael, 225 Admiral Street, Providence 8	GA 7330, GA 1600
Arlen, Richard S., 359 Broad Street, Providence 7	DE 8210
Armington, Herbert H., 789 Broad Street, Providence 7	WI 0940
Ashton, George W., ( <i>Woonsocket</i> ) Harrisville	Pascoag 91
Ashworth, Charles J., 184 Angell Street, Providence 6	GA 4370
Astle, Christopher J., 278 Broad Street, Providence 3	GA 3167

## B

Badway, Joseph M., 549 Broadway, Providence 9	UN 2400, GA 1600
Baldrige, Robert R., 192 Angell Street, Providence 6	GA 3448
Bandeian, Alice K., ( <i>Pawtucket</i> ) 84 Broad Street, Pawtucket	PE 7420
Barnes, Albert E., ( <i>Pawtucket</i> ) 491 Broad Street, Lonsdale	PE 5443
Barnes, Alvah H., 451 Plainfield Street, Providence 9	WE 0052
Baronian, Durtad R., 688 Cranston Street, Providence 7	WI 3310
Barr, Kathleen M., 605 Hope Street, Providence 6	GA 4114
Barrett, Harold S., State Department of Public Health, Division Tuberculosis Cont., State Office Building, Atlanta, Georgia	
Barrett, John T., 15 Everett Avenue, Providence 6	GA 2006
Barry, Ambrose G., ( <i>Pawtucket</i> ) 387 Broadway, Pawtucket	PE 4661
Bartley, James H., Jr., 7 Benefit Street, Providence 3	DE 6350
Batchelder, Philip, 129 Waterman Street, Providence 6	GA 2166
Batchelder, Walter E., R. F. D. No. 2, North Scituate	Scituate 624
Bates, Reuben C., 122 Waterman Street, Providence 6	GA 4233
Baute, Joseph A., ( <i>Kent</i> ) 4547 Post Road, East Greenwich	Greenwich 420-W
Beardsley, J. Murray, 82 Waterman Street, Providence 6	UN 1880
Beaudin, Briand N., ( <i>Kent</i> ) St. Vincent's Hospital, New York 11, New York	
Beaudoin, Louis I., ( <i>Pawtucket</i> ) 710-a Main Street, Pawtucket	BL 2019
Beaudreault, Elphege A., ( <i>Woonsocket</i> ) 441 South Main Street, Woonsocket	Woonsocket 5605
Beck, Irving A., 355 Thayer Street, Providence 6	UN 1452
Beckett, Francis H., 189 Waterman Street, Providence 6	GA 3342
Behrendt, Vera M., State Hospital, Howard	HO 3700
Bell, Duncan W. J., 211 Angell Street, Providence 6	DE 0159
Bellano, George W., 315 Plainfield Street, Providence 9	WE 4910
Bellino, Antonio, 341 Broadway, Providence 9	PL 2224
Belliotti, Joseph L., 331 Broadway, Providence 9	GA 0582
Benjamin, Emanuel W., 105 Waterman Street, Providence 6	DE 5656

Bernardo, John R., ( <i>Bristol</i> ) 342 High Street, Bristol	Bristol 319
Bernasconi, Ezio J., 726 Broad Street, Providence 7	WI 3212
Bernstein, Perry, 140 Orms Street, Providence 8	DE 5115
Berrillo, Anacleto, 401 Broadway, Providence 9	UN 6611
Bertone, Virgilio M., ( <i>Woonsocket</i> ) 21 Hamlet Avenue, Woonsocket	Woonsocket 2560
Bestoso, Robert L., ( <i>Newport</i> ) 64 Touro Street, Newport	Newport 3036
Bird, Clarence E., 182 Angell Street, Providence 6	GA 6363, GA 1600
Bishop, E. Wade, 182 Waterman Street, Providence 6	GA 2475, GA 1600
Black, Edward J., 169 Angell Street, Providence 6	DE 6059
Blanchard, Howard E., 59 Elmwood Avenue, Providence 7	GA 2622
Blount, Samuel G., 207 Admiral Street, Providence 8	DE 5436
Bolotow, Nathan A., 126 Waterman Street, Providence 6	GA 5387, PL 4987
Bolster, John A., 243 Elmwood Avenue, Providence 7	DE 6270, GA 3332
Botvin, Morris, 155 Angell Street, Providence 6	UN 1210, GA 1600
Boucher, Paul E., ( <i>Woonsocket</i> ) 55 Hamlet Avenue, Woonsocket	Woonsocket 67-W
Boucher, Reginald H., ( <i>Pawtucket</i> ) 704-A Main Street, Pawtucket	PE 5384
Bourn, Lucy E., 381 Angell Street, Providence 6	DE 1694
Bowen, Earl A., 669 Park Avenue, Cranston 10	HO 4130, GA 1600
Bowles, George E., 155 Thayer Street, Providence 6	DE 1898, GA 1600
Boyd, James F., 195 Angell Street, Providence 6	GA 1589, GA 1600
Brackett, Edward S., 167 Angell Street, Providence 6	GA 6431
Bradley, Charles, University of Oregon, Portland, Oregon	
Bradshaw, Arthur B., 49 Beacon Avenue, Providence 3	GA 3852
Bray, Russell S., 454 Angell Street, Providence 6	PL 2440
Brennen, Earle H., 58 John Street, East Providence 14	EA 0942
Breslin, Robert H., 1494 Broad Street, Providence 5	HO 3113
Brochu, Charles E., ( <i>Woonsocket</i> ) 38 Hamlet Avenue, Woonsocket	Woonsocket 7202
Brothers, John H., 637 Smith Street, Providence 8	DE 4180
Brown, Abe A., 18963 Wisconsin, Detroit 21, Michigan	
Brownell, Henry W., ( <i>Newport</i> ) 10 Bull Street, Newport	Newport 512-W
Bryan, Charles E., 425 Willett Avenue, Riverside 15	EA 0961-W
Bruno, Paul C., ( <i>Bristol</i> ) 51 Church Street, Bristol	Bristol 514
Buffum, William P., Jr., 122 Waterman Street, Providence 6	GA 3446, GA 1600
Burgess, Alex M., 454 Angell Street, Providence	PL 2440
Burgess, Alexander M., Jr., 454 Angell Street, Providence 6	PL 2440
Burke, Edward F., 410 Broadway, Providence 9	UN 5504, PL 3959
Burling, Temple, R.F.D. No. 1, North Scituate	Scituate 4240
Burns, Francis L., 382 Broad Street, Providence 7	DE 1164
Burns, Frederic J., 5 Hillside Avenue, Providence 6	PE 6158-W
Burns, Louis E., ( <i>Newport</i> ) 24 Bull Street, Newport	Newport 39
Burrows, Ernest A., 116 Waterman Street, Providence 6	GA 3636
Burton, Kenneth G., 124 Waterman Street, Providence 6	GA 0473, GA 1600
Butler, William J., 199 Angell Street, Providence 6	DE 0294

## C

Caldarone, Alfred A., 104 Almy Street, Providence 9	UN 4482
Calder, Harold G., 224 Thayer Street, Providence 6	GA 1947, GA 1600
Calise, Domenico, 441 Broadway, Providence 9	UN 5529
Callahan, James C., ( <i>Newport</i> ) 10 Bull Street, Newport	Newport 171
Cameron, Edward S., 82 Waterman Street, Providence 6	GA 1989, GA 1600
Campbell, Walter E., 224 Thayer Street, Providence 6	GA 2324
Capalbo, Sylvester A., ( <i>Washington</i> ) 75 Woodruff Avenue, Wakefield	Narr. 414
Capobianco, Giovanni, 536 Admiral Street, Providence 8	GA 5819
Capwell, Remington P., 32 Reservoir Avenue, Providence 7	WI 2255
Cardi, Alphonse R., 1303 Cranston Street, Cranston 9	WE 1836
Carney, Wilfred I., 185 Angell Street, Providence	JA 5541
Cardillo, Edward, R. I. Hospital, Providence	DE 4300
Carroll, Robert E., 295 Angell Street, Providence 6	GA 7377
Case, Jarvis D., 223 Thayer Street, Providence 6	GA 3040
Castronovo, Joseph, 555 Broadway, Providence 9	UN 6363
Cath, Stanley H., 1st Lt. M.C., Mental Hygiene Consultation Service, Fort Dix, New Jersey	
Catullo, Emilie A., 162 Academy Avenue, Providence 8	WE 6858, GA 1600
Celestino, Pasquale J., ( <i>Washington</i> ) Main Street, Hope Valley	Hope Valley 154
Cella, Louis J., 514 Broadway, Providence 9	UN 3535
Ceppi, Charles B., ( <i>Newport</i> ) 68 Narragansett Avenue, Jamestown	Jamestown 8
Cerrito, Louis C., ( <i>Washington</i> ) 22 Elm Street, Westerly	Westerly 4232

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Chace, Robert R., 20 Ridge Road, Bronxville, N. Y.	
Chafee, Francis H., 454 Angell Street, Providence 6	PL 2440, GA 1600
Chapas, Benedict, 341 Smith Street, Providence 8	DE 2925
Chapian, Mihran A., 173 Waterman Street, Providence 6	GA 0913, GA 1600
Chapman, James G., ( <i>Pawtucket</i> ) 1189 Smithfield Avenue, Saylesville	PE 7340
Charon, Ernest A., 105 Coyle Avenue, Pawtucket	BL 3164
Charon, George E., 924 Atwells Avenue, Providence 9	WE 1160
Chase, Peter P., 122 Waterman Street, Providence 6	GA 5023
Chaset, Nathan, 105 Keene Street, Providence 6	UN 8979, GA 1600
Chesebro, Edmund D., 2 Hawthorne Street, Providence 7	WI 1223
Cianci, Vincent A., 54 Pocasset Avenue, Providence 9	WE 4639
Ciarla, Philomen P., ( <i>Newport</i> ) 105 Pelham Street, Newport	Newport 531
Cicma, Haralambie G., 63 Angell Street, Providence 6	GA 8485
Clark, Samuel D., ( <i>Bristol</i> ) 366 Hope Street, Bristol	Bristol 3-W
Clarke, B. Earl, Rhode Island Hospital, Providence	DE 4300
Clarke, Elisha D., 109 North Richhill Street, Waynesburg, Pennsylvania	
Clarke, Elliott M., ( <i>Pawtucket</i> ) 288 Central Street, Central Falls	PE 6760-W
Clune, James P., 156 Auburn Street, Cranston 10	HO 1900
Cohen, Earle F., 176 Waterman Street, Providence	JA 5100
Cohen, Leo, 164 Prairie Avenue, Providence 5	GA 3326
Cohen, Paul, ( <i>Woonsocket</i> ) 99 Main Street, Woonsocket	Woonsocket 6117-R
Cohen, William B., 105 Waterman Street, Providence 6	GA 0843
Colagiovanni, Marco, 288 Broadway, Providence 3	GA 5894, WE 1561
Collom, Harold L., ( <i>Kent</i> ) 3235 Post Road, Apponaug	Hills Grove 1214
Conde, George F., 137 Academy Avenue, Providence 8	WE 6231
Congdon, Palmer, 211 Angell Street, Providence 6	UN 0117
Conlon, Leo V., ( <i>Woonsocket</i> ) 113 Main Street, Woonsocket	Woonsocket 2482-W
Conrad, E. Victor, 203 Angell Street, Providence 6	GA 4624
Conte, Alfred C., 540 Charles Street, Providence 4	GA 8895
Cook, Paul C., 1451 Broad Street, Providence 5	WI 4412
Cooke, Charles O., 171 Angell Street, Providence 6	DE 2145
Corbett, Francis A., ( <i>Newport</i> ) 24 Spring Street, Newport	Newport 737
Corcione, Mary B., 409 Broadway, Providence 9	UN 3154
Cormier, Evariste A., ( <i>Pawtucket</i> ) 1258 Newport Avenue, Pawtucket	PE 0234
Corrigan, Francis V., 613 Angell Street, Providence 6	GA 1347
Corsello, Joseph N., ( <i>Providence</i> ) 235 Broadway, Providence 3	WE 3051-GA 4333
Corvese, Anthony, 243 Broadway, Providence 3	DE 7677
Cox, James H., 141 Waterman Street, Providence 6	GA 6336
Crane, G. Edward, 223 Thayer Street, Providence 6	GA 5324
Crank, Rawser P., 794 Park Avenue, Cranston 10	WI 1614
Cranor, John R., Jr., Belleville, Pa.	
Crepeau, George A., ( <i>Woonsocket</i> ) 34 Hamlet Avenue, Woonsocket	Woonsocket 3102-W
Crowley, James H., 1656 Broad Street, Edgewood 5	HO 6833, GA 1600
Cuddy, Arthur B., 512 Pontiac Avenue, Cranston 10	WI 5249, GA 1600
Cummings, Frank A., 169 Angell Street, Providence 6	DE 6622
Curran, Edmund B., Georgetown University Hospital, Washington, D. C.	
Curren, L. Addison, 789 Park Avenue, Cranston	WI 1568
Cutts, Frank B., 124 Waterman Street, Providence 6	GA 3111, GA 1600
Cutts, Katherine K., 9 Irving Avenue, Providence 6	PL 4772
Cutts, Morgan, 155 Thayer Street, Providence 6	DE 3427

## D

Damarjian, Edward, 972 Broad Street, Providence 5	WI 8806
D'Angelo, Antonio F., 99 State Street, Bristol	Bristol 761
Darrah, Harry E., 42 Woodbury Street, Providence 6	DE 1035
Dashef, Oscar Z., ( <i>Woonsocket</i> ) 202 Stadium Building, Woonsocket	Woonsocket 6011-W
Davies, Stanley D., ( <i>Kent</i> ) 1225 Main Street, West Warwick	Valley 0961
Davis, George W., 1732 Broad Street, Edgewood 5	WI 2433, GA 1600
Davis, William P., 182 Waterman Street, Providence 6	DE 1536, GA 1600
Deery, James P., 331 State Office Building, Providence 2	JA 7100
DeFusco, Bruno G., 369 Broadway, Providence 9	UN 4509, DE 8311
DeLuca, Joseph, 158 Governor Street, Providence 6	PL 2243
Denhoff, Eric, 187 Waterman Street, Providence 6	GA 1837
DeNyse, Donald L., 922 Park Avenue, Cranston 10	WI 2266, GA 3333
DeStefani, Carlo J., ( <i>Woonsocket</i> ) 689 Wood Street, Woonsocket	Woonsocket 3566
Devere, Frederick H., 677 Park Avenue, Auburn 10	HO 0242

DeWolf, Halsey, 305 Brook Street, Providence 6.....	GA 5484
Dileone, Ralph, 223 Broadway, Providence 3.....	GA 3468
Dillon, John A., 255 Hope Street, Providence 6.....	UN 2323
DiMaio, Michael, 415 Angell Street, Providence.....	JA 6682
Dimmitt, Frank W., 78 Waterman Street, Providence 6.....	GA 2886, GA 1600
DiPippo, Palmino, 1536 Westminster Street, Providence 9.....	WE 1567
Dolan, Thomas J., 60 South Angell Street, Providence 6.....	GA 5610
Donley, John E., 222 Broadway, Providence 3.....	UN 1313
Donnelly, John J., 603 Broad Street, Providence 7.....	PL 2310, GA 3333
Dotterer, Charles S., ( <i>Newport</i> ) 193 Waterman Street, Providence 6.....	DE 8433
Dotterer, Charles S., ( <i>Newport</i> ) 11 Redwood Street, Newport, 193 Waterman Street, Providence 6.....	Newport 2950, DE 8433
Dougherty, Edward F., 6374 7th Ave. N., St. Petersburg, Florida.....	
Dowling, Joseph L., 57 Jackson Street, Providence 3.....	GA 3552
Dowling, Richard H., ( <i>Woonsocket</i> ) 128 Main Street, Woonsocket.....	Woonsocket 167-W
Drew, Robert W., ( <i>Bristol</i> ) 391 Main Street, Warren.....	Warren 1490
Duckworth, Milton, ( <i>Washington</i> ) Carolina.....	Carolina 17R2
Dufresne, Walter J., ( <i>Pawtucket</i> ) 168 West Avenue, Pawtucket.....	PE 3640
Dugas, Leo, ( <i>Woonsocket</i> ) Slatersville.....	Woonsocket 122-W
D'Ugo, William P., 282 Broadway, Providence 3.....	GA 0151
Dunbar, Charles W., 10 Appian Way, W. Barrington 14.....	Warren 1106
Duquette, Leo H., ( <i>Kent</i> ) 1044 Main Street, West Warwick.....	Valley 0774
Durkin, Patrick A., ( <i>Pawtucket</i> ) 459 Central Avenue, Pawtucket.....	PE 1457-W
Durkin, Walter R., 111 Waterman Street, Providence 3.....	DE 2224, WI 3595
Dustin, Cecil C., 199 Thayer Street, Providence 6.....	DE 1090
Dwyer, George J., 796 Atwells Avenue, Providence 9.....	WE 3831
Dziob, John S., 148 Blackstone Blvd., Providence 6.....	DE 7360

## E

Earley, Charles P., 388 Prairie Avenue, Providence 5.....	HO 9285
Eckert, George A., ( <i>Newport</i> ) 130 Touro Street, Newport.....	Newport 35-W
Eckstein, Adolph W., 76 Waterman Street, Providence 6.....	GA 0767, GA 1600
Eddy, Augustine W., ( <i>Woonsocket</i> ) 42 Hamlet Avenue, Woonsocket.....	Woonsocket 207-W
Eddy, Jesse P., 3rd, 131 Waterman Street, Providence 6.....	PL 4044
Egan, Thomas A., 156 Smith Street, Providence 8.....	DE 9414, GA 1600
Eliot, Alice M. B., Adams Point, Barrington.....	WA 0857
Emidy, H. Lorenzo, ( <i>Woonsocket</i> ) 188 Prospect Street, Woonsocket.....	Woonsocket 92
Erinakes, Peter C. ( <i>Kent</i> ) 1425 Main Street, West Warwick.....	Valley 0896-W

## F

Fagan, James H., 230 Thayer Street, Providence 6.....	GA 7242
Fain, William, 249 Thayer Street, Providence 6.....	GA 7271, GA 3333
Fallon, James T., Charles V. Chapin Hospital, Providence 8.....	DE 7400
Famiglietti, Edward V., 77 Brown Street, Providence 6.....	UN 0023, GA 1600
Farago, Samuel S., ( <i>Washington</i> ) 101 West Broad Street, Westerly.....	Westerly 2432
Farrell, Charles L., ( <i>Pawtucket</i> ) 166 Pawtucket Avenue.....	PE 7101
Farrell, George B., ( <i>Kent</i> ) 1018 Main Street, West Warwick.....	Valley 0038
Farrell, Irving A., ( <i>Pawtucket</i> ) 428 Broad Street, Central Falls.....	PE 6284-W
Farrell, Robert L., 57 Beacon Avenue, Providence 3.....	UN 1814
Feifer, Anthony M., 547 Broadway, Providence 9.....	UN 3915
Feinberg, Banice, 183 Angell Street, Providence 6.....	UN 2242
Femino, Richard D., 666 Douglas Avenue, Providence 8.....	UN 1433
Ferguson, Duncan H. C., Jr., ( <i>Pawtucket</i> ) 75 Park Place, Pawtucket.....	PE 7317
Ferguson, John B., 205 Broad Street, Providence 9.....	GA 2799, GA 1600
Ferrara, Bernardino F., 211 Webster Avenue, Providence 9.....	WE 1802
Ferrucci, Domenic P., ( <i>Woonsocket</i> ) 80 Hamlet Avenue, Woonsocket.....	Woonsocket 826
Fershtman, Max B., 708 Park Avenue, Cranston 10.....	WI 4346
Fidanza, Antonio G., 240 Pocasset Avenue, Providence 9.....	WE 2562
Field, Eugene A., 112 Waterman Street, Providence 6.....	GA 5016
Fischer, William J. H., Jr., 302 Thayer Street, Providence 6.....	GA 2676
Fish, David J., 355 Thayer Street, Providence 6.....	JA 9012
Fish, Vera J. W., State Hospital, Howard.....	HO 3700
Fishbein, Jay N., 221 Angell Street, Providence 6.....	GA 3452, GA 1600
Fitts, Fernald C., ( <i>Washington</i> ) 881 Lafayette Street, Bridgeport, Conn.....	
Fitzpatrick, Walter F., Jr., 321 Hope Street, Providence 6.....	UN 2622
Fletcher, Donald B., ( <i>Newport</i> ) Newport Hospital, Newport.....	Newport 410

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Fletcher, Henry B., 14 South Meadow Lane, Barrington	Warren 1472-W
Fletcher, William, 812 Industrial Trust Bldg., Providence	GA 9230
Flynn, Joseph C., 559 Cranston Street, Providence 7	WE 2221
Flynn, Thomas S., ( <i>Woonsocket</i> ) 11 Monument Square, Woonsocket	Woonsocket 908-W
Fogarty, Thomas E., 224 Thayer Street, Providence 6	GA 0217
Foley, William H., 810 Broad Street, Providence 7	WI 2727
Fontaine, Aurey, ( <i>Woonsocket</i> ) 52 Hamlet Avenue, Woonsocket	Woonsocket 246
Forget, Ulysse, ( <i>Bristol</i> ) 600 Main Street, Warren	WA 0070
Fortunato, Stephen J., 425 Plainfield Street, Providence 9	WE 0057
Foster, Edward, ( <i>Pawtucket</i> ) 569 Power Road, Pawtucket	BL 2070
Fox, A. Henry, 518 Willett Avenue, East Providence	EA 3372
Fox, G. Raymond, ( <i>Pawtucket</i> ) 209 Broadway, Pawtucket	PE 8621
Fracasse, John, 23 Joslin Street, Providence 9	
Franklin, Joseph, 217 Elmwood Avenue, Providence 7	GA 7348
Fratantuono, Frank D., 106 Vinton Street, Providence 9	PL 4493, PL 9601
Freedman, David, 224 Thayer Street, Providence 6	DE 0042
Freedman, Stanley S., 183 Waterman Street, Providence 6	DE 8447
Fruggiero, Enzo, J., 68 Beaufort Street, Providence 8	WE 4536-R
Frumson, Solomon L., ( <i>Woonsocket</i> ) Monument Square, Woonsocket	Woonsocket 719-R
Fuhrmann, Louis J., 933 Chalkstone Avenue, Providence 8	PL 4539
Fulton, Frank T., 124 Waterman Street, Providence 6	GA 3111
Fulton, Marshall, 124 Waterman Street, Providence 6	GA 3111

## G

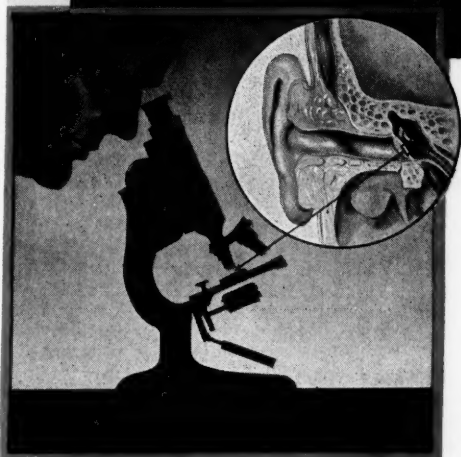
Gale, Elmer T., ( <i>Washington</i> ) 5 Robinson Street, Narragansett	Narragansett 800-W
Gallagher, Henry J., 386 Smith Street, Providence 8	DE 5967
Gammell, Edwin B., 441 Angell Street, Providence	JA 1177
Gannon, Charles H., 23 Holburn Avenue, Cranston	WI 1713
Garrison, Norman S., ( <i>Woonsocket</i> ) Box 547, Westerly	Watch Hill 52-3
Garside, Francis V., 154 Francis Street, Providence 3	DE 7572, GA 1600
Gaudet, Albert J., ( <i>Pawtucket</i> ) 592 Smithfield Avenue, Pawtucket	PE 2383
Gauthier, Henri E., ( <i>Woonsocket</i> ) 34 Hamlet Avenue, Woonsocket	Woonsocket 393-325
Gerber, Isaac, 10 Leicester Way, Pawtucket	PE 7353
Geremia, Albert E., 172 Pocasset Avenue, Providence 9	WE 8136
Gershman, Isadore, 343 Thayer Street, Providence 6	GA 1551
Giannini, Pio, 446 Broadway, Providence 9	UN 3860
Gibson, J. Merrill, 185 Angell Street, Providence 6	UN 1243
Gilbert, John J., 209 Angell Street, Providence 6	GA 1584
Giles, William P., 480 Lowell Avenue, Newtonville, Mass.	
Gillis, Nora P., 189 Governor Street, Providence	GA 3215
Giunta, Frank, 403 Montgomery Avenue, Providence	HO 6135
Giura, Arcadie, ( <i>Bristol</i> ) 31 Washington Street, Warren	Warren 0680
Goldberger, Milton, 729 North 6th Avenue, Tucson, Arizona	
Goldowsky, Seebert J., 209 Angell Street, Providence 6	UN 1707
Goldstein, Sidney S., 203 Thayer Street, Providence 6	DE 5666, GA 1600
Golini, Carlotta N., 371 Broadway, Providence 9	UN 6603
Gongaware, Hartford P., ( <i>Washington</i> ) 17 Granite Street, Westerly	Westerly 2246
Gordon, John H., ( <i>Pawtucket</i> ) 47 Cottage Street, Pawtucket	PE 5280
Gordon, Walter C., 116 Princeton Avenue, Providence 7	JA 4040
Gormly, John A., 187 Academy Avenue, Providence 8	WE 5185
Granata, Tancredi G., 347 Broadway, Providence 9	DE 0281, WE 1671-W
Granger, Eugene N., Pascoag	Pascoag 80
Greason, Thomas L., 677 Broad Street, Providence	UN 3355
Greenstein, Jacob, 143 Prairie Avenue, Providence 5	GA 1969
Gregory, Kalei K., 211 Angell Street, Providence 6	DE 2459
Grenolds, Walter J., ( <i>Washington</i> ) 9 Elm Street, Westerly	Westerly 2772
Grimes, M. Osmond, ( <i>Newport</i> ) 57 Kay Street, Newport	Newport 2824
Gross, Carl R., 102 Olney Street, Providence 6	DE 8620
Grossman, Herman P., 211 Angell Street, Providence 6	DE 2433
Grzebein, Stanley T., 681 Smith Street, Providence 8	DE 6334
Grzebiein, Thomas W., 187 Academy Avenue, Providence 8	WE 3061, GA 1600

## H

Hacking, Raymond F., 105 Waterman Street, Providence 6	GA 1613
Hackman, Edmund T., ( <i>Kent</i> ) 10 Post Road, Warwick	WI 2883
Hagenow, LeRoy K., ( <i>Kent</i> ) 3166 Post Road, Apponaug	Hillsgrove 1224

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## PIONEERS in Research... and Leadership thru the years in combating



DOHO in realizing the need for a potent, topical, well tolerated ear medication, yet mindful that no one formula could be suitable for all conditions... devoted every facility and scientific resource to the development and perfection of AURALGAN and OTOSMO-SAN. Each has its sphere of usefulness... each has been tested and clinically proven in many thousands of cases. *Reprints and substantiating data sent on request.*

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is a scientifically prepared, completely water-free Glycerol (DOHO) having the highest specific gravity obtainable, containing antipyrine and benzocaine... which by its potent decongestant, dehydrating and analgesic action provides effective relief of pain and inflammation.

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is not just a mere mixture, but a scientifically potent chemical combination of Sulfathiazole and Urea in AURALGAN Glycerol (DOHO) base... which exerts a powerful solvent action on protein matter, liquefies and dissolves exuberant granulation tissue, cleanses and deodorizes, and tends to exhilarate normal tissue healing in the effective control of chronic suppurative otitis media.

*Literature and samples on request*

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Hager, Herbert F., 203 Thayer Street, Providence 6	GA 0581
Hall, Hugh J., 1283 North Main Street, Providence 4	GA 1162, GA 1600
Ham, John C., 124 Waterman Street, Providence 6	GA 3111
Hamilton, James, 349 Hope Street, Providence 6	GA 4646
Hamlin, Hannibal, 4 George Street, Providence 6	UN 2630
Hammond, Roland, 41 Boylston Avenue, Providence 6	PL 5949
Hanley, Francis E., ( <i>Pawtucket</i> ) 336 North Broadway, Providence 16	EA 1236
Hanley, Henry J., ( <i>Pawtucket</i> ) 23 Park Place, Pawtucket	PE 5422
Hanna, Louis E., ( <i>Pawtucket</i> ) 164 Central Avenue, Pawtucket	PE 9171
Hanson, F. Charles, 162 Angell Street, Providence 6	GA 9234, GA 1600
Happ, Linley C., 170 Waterman Street, Providence 6	GA 6855
Hardiman, James F., 432 Public Street, Providence	HO 6500
Hardman, Margaret S., 46 Armington Avenue, Providence 8	WE 1995
Hardy, Arthur E., ( <i>Kent</i> ) 2 Post Road, Pawtucket	HO 9212
Harley, Benjamin F., 154 Angell Street, Providence 6	GA 0532
Harrington, Peter F., 249 Hope Street, Providence 6	DE 2200
Harris, Herbert E., 219 Waterman Street, Providence 6	GA 1721
Harrop, Joseph K., ( <i>Kent</i> ) 1097 Main Street, West Warwick	Valley 1233
Harvey, N. Darrell, 112 Waterman Street, Providence 6	GA 6637
Hascall, Theodore C., 44 Lincoln Avenue, Riverside	EA 0020
Hathaway, Clifford S., ( <i>Washington</i> ) 38 Lake Street, Wakefield	Narragansett 640
Haverly, Richard E., 841 Hope Street, Providence 6	GA 9825
Hawkins, Joseph F., 197 Waterman Street, Providence 6	GA 2552
Hayes, Robert C., ( <i>Pawtucket</i> ) 166 Pawtucket Avenue, Pawtucket	PE 7101
Hayes, Walter E., 1103 Cranston Street, Cranston	WE 4480
Healey, James P., ( <i>Pawtucket</i> ) 84 Broad Street, Pawtucket	BL 1382
Hecker, Harry, ( <i>Pawtucket</i> ) 172 East Avenue, Pawtucket	PE 1682
Heffernan, Edward V., 148 Brunswick Avenue, Gardiner, Maine	
Hemond, Fernand J., ( <i>Kent</i> ) 12 St. John Street, West Warwick	Valley 0019
Hennessey, Kiernan W., ( <i>Pawtucket</i> ) 520 East Avenue, North Providence 11	PE 8032
Henry, Albert C., ( <i>Washington</i> ) West Main Street, Wickford	Wickford 409
Henry, Robert T., ( <i>Pawtucket</i> ) 18 Exchange Street, Pawtucket	PE 5184-W
Hill, Prescott T., 225 Broad Street, Providence 3	DE 0191, GA 1600
Hindle, Joseph A., 655 Broad Street, Providence 7	DE 6310
Hindle, William V., 655 Broad Street, Providence 7	DE 6311
Hodgson, William H., 1874 Broad Street, Cranston 5	WI 2522
Hoey, Waldo O., 295 Angell Street, Providence 6	PL 1300
Hogan, John P., 655 Broad Street, Providence 7	UN 9544
Holdsworth, Hubert, ( <i>Bristol</i> ) 366 Hope Street, Bristol	Bristol 734
Hollingworth, Arthur, Hope Road	Scituate 528
Honan, Frank J., 116 Governor Street, Providence 6	GA 9076
Horan, William A., 319 Broad Street, Providence 7	GA 1251
Horvitz, Abraham, 111 Waterman Street, Providence	JA 9432
Horvitz, Manuel, 407 Brook Street, Providence 6	GA 5415
Houghton, Montafix W., Congdon Street, Providence 6	DE 4444
Houston, Craig S., 195 Angell Street, Providence 6	GA 6886
Howrie, William C., Jr., 280 Benefit Street, Providence	JA 8948
Hubbard, John D., 162 Angell Street, Providence 6	DE 0626
Hudson, Royal C., ( <i>Kent</i> ) 1225 Main Street, West Warwick	Valley 0961
Hughes, Stephen F., ( <i>Pawtucket</i> ) 33 Main Street, Pawtucket	PE 0460
Hughes, William N., 112 Waterman Street, Providence 6	GA 1431
Hunt, Russell R., 8 Kensington Road, Cranston	HO 7208
Hunt, William W., 93 Warren Avenue	EA 0031
Hyer, Harrison F., Box 486, Belchertown, Mass.	
Hyer, Oscar H., 115 Governor Street, Providence	PL 1331

## I

Iavazzo, Anthony A., 227 Laurel Hill Avenue, Providence 9	WE 3850
Indeglia, Pasquale V., 451 Broadway, Providence 9	UN 6070
Israel, Cyril, ( <i>Woonsocket</i> ) 18 Monument Square, Woonsocket	Woonsocket 3891-R

## J

Jackvony, Albert H., 339 Elmwood Avenue, Providence 7	HO 1141
Jacobs, Harry, ( <i>Woonsocket</i> ) Post Office Building, Pascoag	Pascoag 590
Jacobson, Frank J., 78 Waterman Street, Providence 6	UN 6626

continued on page 628



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## ROSTER OF FELLOWS, 1948

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Jadosz, Frank C., 2 Hawthorne Street, Providence 7	WI 1223
Jerech, Henrietta K., ( <i>Newport</i> ) 248 Broadway, Newport	Newport 398
Jeremiah, Bert S., ( <i>Pawtucket</i> ) 614 East Avenue, Pawtucket	BL 3216
Johnson, William J., ( <i>Washington</i> ) 26 North Road, Kingston, P. O. Box 43, Narragansett 552-M	
Johnston, Joseph C., 369 Broad Street, Providence 7	GA 9885
Jones, Henry A., 506 Pontiac Avenue, Cranston	WI 3420
Jones, John P., ( <i>Washington</i> ) 127 Main Street, Wakefield	Narragansett 3
Jones, Walter S., 165 Waterman Street, Providence 6	GA 8551
Jones, Harmon P. B., 50 Maude Street, Providence 8	DE 3200
Jordan, William H., 570 Broad Street, Providence 7	DE 0900
Joyce, Henry S., 201 Waterman Avenue, East Providence 14	EA 4123

## K

Kalcounos, William N., ( <i>Pawtucket</i> ) 101 Broadway, Pawtucket	PE 5305-W
Kant, Alfred, Massachusetts Eye and Ear Infirmary, Boston, Massachusetts	
Kapnick, Israel, 224 Thayer Street, Providence 6	GA 3143
Kaskiw, Emil A., ( <i>Woonsocket</i> ) 200 Harris Avenue, Woonsocket	Woonsocket 6005
Kay, Maurice N., 183 Waterman Street, Providence 6	GA 2230
Kechijian, Harry M., 84 Broad Street, Pawtucket	PE 0493
Kechijian, Natalie, ( <i>Pawtucket</i> ) 84 Broad Street, Pawtucket	PE 7420
Keegan, George A., ( <i>Woonsocket</i> ) 34 Hamlet Avenue, Woonsocket	Woonsocket 3400-W
Kelley, Jacob S., 153 Smith Street, Providence 8	DE 6665
Kelly, Earl F. ( <i>Pawtucket</i> ) 21 High Street, Pawtucket	PE 0220-W
Kempker, Adele C., State Hospital, Howard	HO 4700
Kennedy, John A., ( <i>Woonsocket</i> ) 194 Main Street, Woonsocket	Woonsocket 2708 W
Kenney, John F., ( <i>Pawtucket</i> ) 19 Kenilworth Way, Pawtucket	PE 0049
Kenney, Stephen A., ( <i>Pawtucket</i> ) 258 Broad Street, Valley Falls	PE 4452
Kennon, Charles E. V., 223 Congress Avenue Providence 7	HO 3434
Kent, Joseph C., ( <i>Kent</i> ) 10 Post Road, Pawtucket	WI 1820
Kenyon, Frances A., ( <i>Washington</i> ) Woodville Road, Woodville	Carolina 18R2
Kenyon, Harold D., ( <i>Washington</i> ) Box 226, Misquamicut Hills, Westerly	Watch Hill 7137
Keohane, John T., 586 Broad Street, Providence 3	UN 1221, GA 1600
Kiene, Hugh E., 111 Waterman Street, Providence 6	PL 5759
King, Alfred E., ( <i>Woonsocket</i> ) 175 Harris Avenue, Woonsocket	Woonsocket 662
King, Arthur W., ( <i>Newport</i> ) Harbor Road, Adamsville	Newport 452
King, Francis J., ( <i>Woonsocket</i> ) 189 Harris Avenue, Woonsocket	Woonsocket 662
Kingman, Lucius C., 76 Waterman Street, Providence 6	DE 6138, GA 1600
Kirk, George E., 1337 Smith Street, Providence 11	WE 3122
Kiven, Nathan J., 111 Waterman Street, Providence 6	PL 5759, UN 0110, GA 1600
Kostyla, Edward A., ( <i>Kent</i> ) 15 Washington Street, West Warwick	Valley 099-W
Koch, Peter, Jr., ( <i>Kent</i> ) 14 Pulaski Street, West Warwick	
Kraemer, Richard J., ( <i>Washington</i> ) 586 Broad Street, Providence 7	UN 1232
Kramer, Louis I., 126 Waterman Street, Providence 6	GA 3235
Krollicki, Thaddeus A., ( <i>Pawtucket</i> ) 102 Waterman Street, Providence 6	JA 9090

## L

Ladd, Joseph H., ( <i>Washington</i> ) Exeter School, Lafayette	Wickford 4
Lagerquist, A. Lloyd, 73 Willett Avenue, Riverside	EA 4615
Lalonde, Alphonse J., ( <i>Pawtucket</i> ) 485 Armistice Boulevard, Pawtucket	PE 1876
Lalor, Thomas J., Jr., ( <i>Woonsocket</i> ) 285 Main Street, Woonsocket	Woonsocket 78-W
Lamb, Francis D., ( <i>Kent</i> ) 11 Harris Avenue, West Warwick	Valley 0107
Lamoureux, Stanislas A., ( <i>Pawtucket</i> ) 208 Broad Street, Pawtucket	PE 5164-W
Landsteiner, Ernest K., 4 George Street, Providence 6	UN 2630
Langdon, John, 43 Irving Avenue, Providence 6	GA 1016
Laskey, Howard G., ( <i>Washington</i> ) Carolina	Carolina 30 Ring 4
Laufer, Maurice W., Emma Pendleton Bradley Home, Providence 15	EA 3400
Laurelli, Edmond C., ( <i>Pawtucket</i> ) 188 Main Street, Pawtucket	PE 5451-W
Lawson, Herman A., 454 Angell Street, Providence 6	PL 2440, GA 1600
Lawton, Anne L., State Infirmary, Howard	HO 3700
Leech, Clifton B., 82 Waterman Street, Providence 6	GA 5171
Leet, William L., 199 Thayer Street, Providence 6	UN 1158
Lent, James W., ( <i>Newport</i> ) Main Road, Tiverton	Tiverton 24
Lenzner, Simon G., 187 Waterman Street, Providence 6	DE 8710
Levine, Harry ( <i>Woonsocket</i> ) 162 Main Street, Woonsocket	Woonsocket 3612-W
Levy, William S., ( <i>Woonsocket</i> ) 70 Main Street, Woonsocket	Woonsocket 2098-W

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**BIBLIOGRAPHY:** 1. Frank, R. T.: *M. Clin. North America* 25:607, 1941. 2. Kane, H. F.: *Am. J. Obst. & Gynec.* 32:110, 1936. 3. Mason, L. W.: *Am. J. Obst. & Gynec.* 44:630, 1942. 4. Krohn, L., and Harris, J. M.: *Am. J. Obst. & Gynec.* 41:95, 1941. 5. Soule, S. D.: *Am. J. Obst. & Gynec.* 42:1009, 1941.

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## ROSTER OF FELLOWS, 1948

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Lewis, Luther R., ( <i>Bristol</i> ) 391 Main Street, Warren	Warren 1962
Libby, Harold, 223 Thayer Street, Providence 6	GA 0868
Lippitt, Louis D., 41 Pocasset Avenue, Providence 9	WE 3551
Lisbon, Wallace, 928 Smith Street, Providence 8	WE 4121
Litchman, David, 102 Waterman Street, Providence 6	UN 1563
Littlefield, Frank B., 199 Thayer Street, Providence 6	UN 1446
Littleton, Thomas R., 261 Rhodes Street, Providence 5	DE 7027
Logler, Frank J., ( <i>Newport</i> ) 42 Kay Street, Newport	Newport 2498-W
Londergan, James P., 81 Governor Street, Providence 6	GA 4255
Lord, Robert M., 122 Waterman Street, Providence 6	GA 2163
Lovering, Edwin F., ( <i>Pawtucket</i> ) 209 Broadway, Pawtucket	PE 0072-W
Luongo, Fedele U., 508 Charles Street, Providence 4	DE 2867
Lupoli, Alphonse W., ( <i>Kent</i> ) 3291 Post Road, Apponaug	Hillsgrove 1600-W
Lury, John J., 1424 Broad Street, Providence 5	HO 3300
Lynch, John P., ( <i>Pawtucket</i> ) 210 Central Avenue, Pawtucket	PE 0168

## M

MacCardell, Frank C., 193 Waterman Street, Providence 6	DE 8433
MacDonald, William J., 221 Thayer Street, Providence	GA 1710
Mack, John A., ( <i>Kent</i> ) 1575 Main Street, West Warwick	Valley 0639
MacLeod, Norman M., 114 Touro Street, Newport	Newport 282
Magill, William H., 116 Waterman Street, Providence 6	GA 3539
Mahoney, Andrew W., 1404 Westminster Street, Providence 3	WE 0200
Mahoney, William A., 44 Motague Street, Providence 6	PL 1094
Maiello, Robert, 299 Broadway, Providence 3	GA 3377
Malinou, Nathaniel J., 334 Smith Street, Providence 8	DE 2123
Malone, John M., ( <i>Newport</i> ) 101 Water Street, Portsmouth	Portsmouth 47
Mamos, Photius D., 600 Broad Street, Providence 7	GA 2853
Mandell, Israel, 50 Oakland Avenue, Providence 8	GA 2450
Manganaro, Attilio L., ( <i>Washington</i> ) 95 Kingstown Road, Peace Dale	Narragansett 94
Manning, Patrick J., ( <i>Washington</i> ) 35 Brown Street, Wickford	Wickford 77
Mara, Earl J., ( <i>Pawtucket</i> ) 260 Lonsdale Avenue, Pawtucket	PE 0883-W
Margossian, Arshag D., 315 Broad Street, Providence 7	GA 0516
Marks, Herman B., 183 Angell Street, Providence 6	UN 1020, GA 1600
Marks, Joseph ( <i>Pawtucket</i> ) 1111 Smitahfield Avenue, Lincoln	PE 4500
Marks, Morris, ( <i>Pawtucket</i> ) 838 Newport Avenue, Pawtucket	PE 6783-W
Marshall, J. Brewer, ( <i>Pawtucket</i> ) 12 Mulberry Street, Pawtucket	PE 1083-W
Martin, Arthur E., 101 Waterman Street, Providence 6	GA 9271
Martin, Richard J., Box 9, North Scituate	Scituate 347
Martineau, Lawrence A., Rhode Island Hospital, Providence 2	DE 4300
Marzilli, Alexander F., 7 Dexter Street, Providence 9	WE 3366
Mastrobuono, Amedeo N., ( <i>Washington</i> ) Exeter School, Lafayette	Wickford 4
Mathews, Frank H., 382 Brook Street, Providence 6	GA 1815
Mathews, George S., 114 Brown Street, Providence 6	DE 6742
Mathewson, Earl J., ( <i>Pawtucket</i> ) 20 Park Place, Pawtucket	PE 6898
Matteo, Frank I., 463 Broadway, Providence 9	UN 3111
Mattera, Vincent J., 425 Broadway, Providence 9	UN 2526
Maynard, Irene G., ( <i>Kent</i> ) 40 Curson Street, West Warwick	Valley 1305
Maynard, Jean M., ( <i>Kent</i> ) 40 Curson Street, West Warwick	Valley 1305
Mayner, Frank A., ( <i>Newport</i> ) Newport Hospital, Newport	Newport 410
McAteer, Raymond F., ( <i>Washington</i> ) 1880 Broad Street, Cranston 5	WI 6565, GA 1600
McCabe, Francis J., 204 Angell Street, Providence 6	PL 3675
McCaffrey, James P., 116 Waterman Street, Providence 6	GA 6533, GA 1600
McCann, James A., 207 Waterman Street, Providence 6	GA 1862
McCarthy, James M., ( <i>Woonsocket</i> ) 426 Blackstone Street, Woonsocket	Woonsocket 44-W
McCaughy, Edward H., ( <i>Pawtucket</i> ) 118 Prospect Street, Pawtucket	PE 7660-W
McCoart, Richard F., Jr., 30 Oleyville Square, Providence 9	WE 2099
McCoey, James H., ( <i>Woonsocket</i> ) 99 Main Street, Woonsocket	Woonsocket 1747
McGurdy, Gordon J., Box 266, Hollywood, Florida	
McCusker, Henry F., 167 Angell Street, Providence 6	DE 4901, GA 1600
McDonald, Charles A., 106 Waterman Street, Providence 6	GA 1711
McDonnell, William A., 20 Highland Avenue, North Providence	WE 2131
McEvoy, Frank E., 230 Thayer Street, Providence 6	GA 0578
McGinn, James E., ( <i>Pawtucket</i> ) 19 Stewart Street, Pawtucket	PE 0277-W
McGovern, Llewellyn J., 1326 Eddy Street, Providence 5	HO 2125, WI 9009
McIntyre, William A., 475 Elmwood Avenue, Providence 7	WI 6500, GA 1600



McKendry, James R., 568 Hope Street, Providence 6	GA 3272
McKenna, Joseph B., ( <i>Woonsocket</i> ) 162 Main Street, Woonsocket	Woonsocket 214-W
McKinney, Samuel, 649 Cranston Street, Providence	WE 2414
McLaughlin, Edward A., 600 Broad Street, Providence 7	DE 7470
McOsler, Thomas C., 152 Francis Street, Providence 3	GA 1243
McWilliams, Joseph G., 154 Angell Street, Providence 6	GA 4488
Medoff, Edward B., ( <i>Woonsocket</i> ) Room 204, Hospital Trust Building, Woonsocket	Woonsocket 804-W
Mellone, John A., 15 Bay Spring Avenue, West Barrington	WARREN 0682
Melucci, Alfred F., ( <i>Pawtucket</i> ) 113 West Avenue, Pawtucket	PE 0269
Melvin, Edward G., 369 Broad Street, Providence 7	DE 1018
Menzies, Gordon E., 154 West Main Street, Wickford	Wickford 23
Merchant, Marcius H., ( <i>Bristol</i> ) 390 Main Street, Warren	WARREN 0077
Merlino, Frank A., 377 Hope Street, Providence 6	GA 6745
Merrill, Whitman, ( <i>Kent</i> ) 303 Main Street, Washington	VAILEY 0881
Messinger, Harry C., 210 Angell Street, Providence 6	GA 3028
Metcalf, Cecil J., 198 Angell Street, Providence 6	UN 0494
Migel, Dauchy, ( <i>Washington</i> ) Charlestown	Carolina 82 r 4
Migliaccio, Anthony V., 196 Broadway, Providence 3	GA 4341
Millard, Charles E., ( <i>Bristol</i> ) 2 Church Street, Warren	WARREN 0220-W
Miller, Albert H., 28 Everett Avenue, Providence 6	DE 5058
Miller, Henry, 194 Waterman Street, Providence 6	UN 0832
Miller, Himon, 105 Waterman Street, Providence 6	GA 2541
Mills, Parker, 206 Smith Street, Providence 8	GA 1388
Miner, Harold C., 1447 Broad Street, Providence 5	HO 2141
Missirlian, Mihran, 194 Broad Street, Providence 3	GA 5842
Mochnacky, John, 660 Broad Street, Providence 7	GA 4871
Molony, Walter J., 715 Broad Street, Providence 7	WI 1423, GA 1600
Monahan, John T., 160 Academy Avenue, Providence 8	WE 0218
Mongillo, Barrito B., 275 Wayland Avenue, Providence 6	DE 5956
Monti, Emilio J., 214 Broadway, Providence 3	GA 4239
Monti, Victor H., ( <i>Woonsocket</i> ) 50 Carrington Avenue, Woonsocket	Woonsocket 4092
Moor, Henry B., 147 Angell Street, Providence 6	GA 3007
Moore, James S., 30 John Street, East Providence 14	EA 2074
Moran, James B., 66 Fruit Hill Avenue, Providence	WE 1163
Morein, Samuel, 345 Angell Street, Providence 6	GA 0970
Mori, Laurence A., 55 Pocasset Avenue, Providence 9	WE 2165
Morrone, Louis A., ( <i>Washington</i> ) 21 Grove Avenue, Westerly	Westerly 2234
Motta, Gustavo A., 164 Academy Avenue, Providence 8	WE 5554
Mowry, Classen, 15 South Hill Drive, Cranston 9	UN 9237
Mowry, Jesse E., 211 Washington Avenue, Providence 5	HO 2229
Muller, Gertrude L., 100 North Main Street, Providence	DE 1462
Mulvey, William A., 24 Beach Road, Bass Rocks, Gloucester, Massachusetts	
Muncy, William M., 162 Angell Street, Providence 6	GA 4385
Murphy, John F., 289 Angell Street, Providence 6	GA 0455
Murphy, Robert G., 184 Angell Street, Providence 6	DE 3424, PL 1923
Murphy, Thomas H., 1008 Smith Street, Providence 8	WE 1256
Myers, Edward L., ( <i>Woonsocket</i> ) 56 Winter Street, Woonsocket	Woonsocket 266
Myrick, John C., 513 Cranston Street, Providence 7	WE 3762

## N

Nadworny, Adolph J., 15 Warren Avenue, Chelmsford Center, Massachusetts	
Nathans, Samuel, ( <i>Washington</i> ) Main Street, Hope Valley	Hope Valley 117
Nerone, William S., 21 Bullocks Point Avenue, East Providence 15	EA 4462
Nestor, Michael J., 710 North Mai Street, Providence 4	DE 3030
Nestor, Thomas A., ( <i>Washington</i> ) 69 Kenyon Avenue, Wakefield	Narragasset 378
Nevitt, Francis W., 575 Pontiac Avenue, Cranston	HO 3500
Nichols, Ira C., Naval Hospital, Philadelphia, Pennsylvania	
Normadin, Louis A., 240 Taunton Avenue, East Providence 14	EA 1100
Nourie, Joseph P., 1339 Smith Street, Centerdale	CE 0065-W
Noyes, Ira H., 199 Benefit Street, Providence 3	DE 7585

## O

O'Brien, James P., ( <i>Woonsocket</i> ) 70 North Main Street, Woonsocket	Woonsocket 3665
O'Brien, John H., 95 Taunton Avenue, East Providence	EA 0092

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O'Brien, William B., State Sanatorium, Wallum Lake	Pascoag 22
O'Connell, Francis D., 215 Thayer Street, Providence 6	GA 1441
O'Connell, Joseph C., 215 Thayer Street, Providence 6	GA 9046
O'Connell, Thomas L., 359 Broad Street, Providence 7	GA 3321, DE 1126
O'Connell, William J., 198 Angell Street, Providence 6	GA 1423, GA 1600
O'Connor, John V., ( <i>Woonsocket</i> ) 247 Gaskill Street, Woonsocket	Woonsocket 3098
O'Connor, Michael J., 105 Waterman Street, Providence 6	GA 0935
Oddo, Vincent J., 322 Broadway, Providence 9	GA 1461
O'Donnell, Alan E., 21 Elmgrove Avenue, Providence 6	GA 0549
O'Reilly, Edwin B., 737 Smith Street, Providence 8	DE 1132

## P

Pahigian, Vahey M., R. I. Hospital, Providence	
Palmer, William H., 59 Elmwood Avenue, Providence 7	GA 4328
Palumbo, Joseph A., 118 Pocasset Avenue, Providence 9	WE 2371
Pardee, Katherine, State Sanatorium, Wallum Lake	Pascoag 22
Parkinson, James M., 497 Hope Street, Providence 6	PL 3017
Partridge, Herbert G., 190 Angell Street, Providence 6	GA 5544
Paterson, John A., Veterans Administration Hospital, Togus, Maine	
Pearson, Rudolph W., 300 Thayer Street, Providence 6	UN 2224
Pedorella, Americo J., 242 Broadway, Providence 3	GA 8218
Pelletier, Emery, 505 Elmwood Avenue, Providence 7	HO 3141
Penington, Robert, Jr., U. S. Naval Academy, Annapolis, Maryland	
Perry, Charles F., P. O. Box 147, Block Island	Block Island 39
Petrucchi, Ralph J., ( <i>Bristol</i> ) 88 Child Street, Warren	Warren 1121
Phillips, Charles L., ( <i>Kent</i> ) 294 Main Street, East Greenwich	Greenwich 175-W
Pianka, Wallace J., U. S. Veterans Hospital Annex, Vancouver, Washington	
Pickles, Wilfred, 184 Waterman Street, Providence 6	GA 1228, GA 1600
Pitts, Herman C., 68 Brown Street, Providence 6	GA 4121
Platt, Marden G. ( <i>Pawtucket</i> ) 123 Massasoit Avenue, Barrington 14	Warren 0414, EA 3836
Porter, Arnold, Children's Hospital, Boston, Massachusetts	
Porter, Emery M., 454 Angell Street, Providence 6	PL 2440, GA 1600
Porter, Lewis B., 199 Thayer Street, Providence 6	GA 3970
Portnoy, Bradford M. S., 672 Broad Street, Providence 7	GA 4235
Potter, Alfred L., 171 Angell Street, Providence 6	DE 3241, GA 1600
Potter, Charles, 223 Thayer Street, Providence 6	DE 1311
Potter, Edgar S., ( <i>Woonsocket</i> ) Chepachet	Pascoag 124
Potter, Henry B., ( <i>Washington</i> ) Wakefield	Narragansett 123
Potter, Merle M., 224 Thayer Street, Providence 6	GA 9184
Potter, Walter H., 68 Jackson Street, Providence 3	GA 4476
Pournaras, Nicholas A., 499 Elmwood Avenue, Providence 7	WI 3022
Pozzi, Gustave, 209 Waterman Avenue, East Providence 14	EA 0330
Prior, James H., 1738 Broad Street, Edgewood 5	HO 1414
Pritzker, Samuel, 179 Wheeler Avenue, Providence 5	UN 0070, WI 7373
Putnam, Helen C., ( <i>no district society</i> ) 312 Laurel Avenue, Providence 6	PL 4059

## Q

Quesnel, Ernest, State Hospital, Howard	HO 4700
---	---------

## R

Rakatsky, Nathan S., 51 Beacon Circle, Cranston 10	WI 8788
Ramos, Jose M., ( <i>Newport</i> ) 28 Kay Street, Newport	Newport 85
Randall, Arthur G., ( <i>No district society</i> ) 511 Westminster Street, Providence 3	GA 2614
Rapoport, Bernard, 169 Waterman Street, Providence 6	DE 1934
Rattenni, Arthur, 1011 Smith Street, Providence 8	WE 6327
Reeves, James A., 1404 Broad Street, Providence 5	HO 2224, GA 1600
Regan, John F., State Hospital for Mental Diseases, Howard	HO 4700
Rego, Rodrigo P. daC., 103 Governor Street, Providence 6	DE 7753
Reich, Jacob, 450 Prairie Avenue, Providence 5	WI 3661
Reid, William A., 300 Thayer Street, Providence	GA 3300
Reilly, Joseph W., ( <i>Woonsocket</i> ) 113 Main Street, Woonsocket	Woonsocket 242-R
Ricci, Edward A., 1985 Smith Street, North Providence 11	CENTERdale 0244
Rice, Richard, ( <i>Newport</i> ) 2 School Street, Newport	Newport 588
Rice, William O., State Infirmary, Howard	HO 3700

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## ROSTER OF FELLOWS, 1948

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Richardson, Ralph D., 68 Brown Street, Providence 6	UN 9056
Riemer, Robert W., 209 Washington Road, Barrington	Warren 2280
Riley, Clarence J., 507 Manton Avenue, Providence 9	WE 2300
Ripley, Frederic W., Jr., 167 Angell Street, Providence 6	GA 6431, GA 1600
Rittner, Mark, 533 Elmwood Avenue, Providence 7	WI 5577
Roberts, William H., 448 Hope Street, Providence 6	DE 1535
Robinson, Mildred I., ( <i>Washington</i> ) 21 Grove Avenue, Westerly	Westerly 2234
Robinson, Nathaniel D., ( <i>Pawtucket</i> ) Apt. 10, Larch Street Veterans Housing, Fox Hills, Staten Island, New York	
Robinson, Robert C., 133 Waterman Street, Providence 6	GA 1892
Rocheleau, Walter C., ( <i>Woonsocket</i> ) 38 Hamlet Avenue, Woonsocket	Woonsocket 2067
Rohr, Mary-Elaine J., ( <i>Pawtucket</i> ) 358 Pawtucket Avenue, Pawtucket	BL 2425-W
Romano, Anthony, 462 Broadway, Providence 9	UN 3577
Ronzese, Francesco, 170 Waterman Street, Providence 6	GA 3004
Ronne, George E., ( <i>Pawtucket</i> ) 49 Fountain Street, Pawtucket	PE 3015
Roque, John A., 126 Garden Street, Cranston	WI 1131
Ross, Florence M., 55 Bluff Avenue, Edgewood Station, Providence 5	WI 7868
Ross, Milton T., 355 Thayer St., Providence	GA 8671
Rossi, Matthew W., 784 Park Avenue, Cranston 10	WI 8688
Rossignoli, Vincent P., 201 Broadway, Providence 3	DE 2358
Roswell, Joseph T., ( <i>Woonsocket</i> ) 50 Providence Street, Woonsocket	Woonsocket 74
Rounds, Albert W., 511 Westminster Street, Providence 3	GA 2927
Rozzero, Paul J., 176 Webster Avenue, Providence 9	WE 3344
Ruggles, Arthur H., Butler Hospital, Providence 6	GA 3456
Ruhmann, Edward F., 1711 Broad Street, Cranston 5	HO 5523
Ruhmn, Warren H., ( <i>Kent</i> ) 4648 Post Road, East Greenwich	Greenwich 7-W
Ruisi, Joseph L. C., ( <i>Washington</i> ) 21 Elm Street, Westerly	Westerly 4281
Russell, Amy E., 651 Warren Avenue, East Providence 14	EA 0090-R
Ryan, J. Frank, 1397 Broad Street, Providence 5	WI 1232
Ryan, Jerome J., 250 Elmwood Avenue, Providence 7	JA 3232
Ryan, Vincent J., 198 Angell Street, Providence 6	GA 4313, GA 1600

## S

Sage, Louis A., 122 Waterman Street, Providence 6	GA 8435
St. Angelo, Joseph A., 1891 Smith Street, North Providence 11	CEnterdale 0167
Saklad, Elihu, 252 George Street, Providence 6	GA 0026
Saklad, Meyer, 252 George Street, Providence 6	GA 0026
Saklad, Sarah M., 153 Morris Avenue, Providence 6	GA 0477
Sammartino, Agostino, 257 Academy Avenue, Providence 8	WE 4081-W
Sanborn, Harvey B., 112 Waterman Street, Providence 6	GA 4253
Sannella, Lee G., 124 Waterman Street, Providence 6	GA 9433
Sarafian, John C., 593 Broad Street, Providence 7	DE 1146, GA 3333
Sargent, Francis B., 124 Waterman Street, Providence 6	GA 4422
Savastano, Americo A., 102 Waterman Street, Providence 6	GA 4538
Savran, Jack, 295 Angell Street, Providence 6	PL 2112, GA 1600
Sawyer, Carl D., 184 Waterman Street, Providence 6	GA 1582
Sawyer, Carl S., 184 Waterman Street, Providence 6	DE 3355
Sayer, Edmund A., 148 Waterman Street, Providence 6	PL 0148
Scanlan, Michael H., ( <i>Washington</i> ) 88 High Street, Westerly	Westerly 2190
Scanlon, Thomas F., 366 Atwells Avenue, Providence 3	GA 0847
Schiff, Bencel L., ( <i>Pawtucket</i> ) 251 Broadway, Pawtucket	BL 3175
Schradieck, Constant E., General Delivery, Germantown P. O., Philadelphia 44, Pa.	
Schwab, William J., 616 Hope Street, Providence 6	DE 1279
Scorpio, Angelo, 236 Broadway, Providence 3	DE 3333
Scotti, Ciro O., 770 Providence Street, West Warwick	VA 0465
Segall, Werner, 155 Angell Street, Providence 6	JA 1801
Sellman, Priscilla, 21 Lorimer Avenue, Providence 6	PL 6234
Seltzer, Bernard B., 300 Pontiac Avenue, Cranston 10	WI 0094
Seltzer, Edward I., 300 Pontiac Avenue, Cranston 10	WI 0094
Senerchia, Giovanni, ( <i>Kent</i> ) 525 Providence Street, West Warwick	VA 0569
Senseman, Laurence A., ( <i>Pawtucket</i> ) 1189 Smithfield Avenue, Lincoln	PE 4484
Sharp, Benjamin S., 339 Thayer Street, Providence 6	DE 0929
Sharp, Ezra A., 339 Thayer Street, Providence 6	GA 1751, GA 1600
Shattuck, George L., 150 George Street, Providence 6	GA 7590
Shaw, Eliot A., c/o North Scituate P. O., Foster	
Sheehan, John J., 551 Hope Street, Providence 6	PL 1214

Sheehan, Linus A., 210 Angell Street, Providence 6	GA 3028
Sheridan, James J., ( <i>Pawtucket</i> ) 329 Broad Street, Central Falls	PE 0233-W
Sheridan, Thomas P., 92 Prosvect Street, Pawtucket	PE 4633
Sherman, Bernard I., 1045 Broad Street, Providence 5	WI 4154
Shields, William P., 221 Thayer Street, Providence 6	GA 2323, GA 1600
Silver, Carol M., 155 Angell Street, Providence 6	UN 2021, GA 3333
Smith, Bruce W., 203 Thayer Street, Providence 6	GA 2221, GA 1600
Smith, Clara L., 281 Olney Street, Providence 6	GA 5407
Smith, Daniel A., ( <i>Newport</i> ) 29 Mary Street, Newport	Newport 3950
Smith, Frederick A., ( <i>No district society</i> ) 525 Hope Street, Providence 6	GA 3395
Smith, Joseph, City Hall, Providence 3	GA 7740
Smith, Orland F., ( <i>Pawtucket</i> ) 275 Angell St., Providence	UN 1010
Sonkin, Nathan, 251 Broadway, Pawtucket	BL 4398
Southey, Charles L., 900 Park Avenue, Cranston 10	HO 2332
Sperber, Perry, 136 Elmwood Avenue, Providence 7	DE 3620
Spicer, Albert D., ( <i>Washington</i> ) 23 Broad Street, Westerly	Westerly 2561
Sprague, Stanley, ( <i>Pawtucket</i> ) 101 Broadway, Pawtucket	PE 3987-W
Stephens, H. Frederick, 195 Thayer Street, Providence 6	GA 3867
Stevens, Raymond E., ( <i>Pawtucket</i> ) 398 Greenwood Avenue, Rumford 16	EA 2508
Stevens, Raymond T., 92 Taunton Avenue, East Providence 14	EA 3933-W
Stewart, Frank A., ( <i>Newport</i> ) 34 Bull Street, Newport	Newport 5940
Stone, E. Franklin, 1509 Westminster Street, Providence 9	UN 4141, UN 6215
Stone, Ellen A., 280 Waterman Street, Providence 6	PL 5289
Stone, Eric P., Cushing General Hospital, Framingham, Massachusetts	
Stone, Jacob, 226 Waterman St., Providence 6	DE 6829
Storrs, Berton W., ( <i>Newport</i> ) Main Road, Portsmouth	Portsmouth 20
Streker, Edward T., 903A Broad Street, Providence	WI 7476
Streker, John F., 903 Broad Street, Providence 7	WI 1244, WI 1432
Sullivan, James F., ( <i>Pawtucket</i> ) 84 Broad Street, Pawtucket	PE 1832-W
Sullivan, Michael H., ( <i>Newport</i> ) 60 Touro Street, Newport	Newport 508
Sullivan, Ralph V., 1192 Westminster Street, Providence 9	GA 1002
Sweeney, John W., 624 Elmwood Avenue, Providence 7	HO 5078, GA. 1600
Sweet, Charles F., ( <i>Pawtucket</i> ) 69 Dryden Avenue, Pawtucket	PE 0532
Sweet, Gustaf, 105 Waterman Street, Providence 6	GA 1979
Sydowski, Edmund J., 66 Doyle Avenue, Providence 6	GA 3050

## T

Taft, George Henry, 8 Myrtle Street, Providence	PL 0091
Taggart, Fenwick G., ( <i>Kent</i> ) 1 Montrose Street, East Greenwich	Greenwich 334
Tanguay, J. Edgar ( <i>Woonsocket</i> ) 281 Harris Avenue, Woonsocket	Woonsocket 440
Tarro, Michael A., 973 Atwells Avenue, Providence 3	WE 3424
Tartaglino, Alfred M., ( <i>Newport</i> ) 75 Pelham Street, Newport	Newport 4190
Tatum, Julianna R., ( <i>Washington</i> ) 8 Margin Street, Westerly	Westerly 2636
Tefft, Benjamin F., ( <i>Kent</i> ) 185 Washington Street, West Warwick	VAiley 0229
Temple, Francis E., 1527 Warwick Avenue, Hoxsie	BA 1265
Tetreault, Adrien G., ( <i>Pawtucket</i> ) 650 Central Avenue, Pawtucket	PE 8778
Thewlis, Malford W., ( <i>Washington</i> ) 25 Mechanic Street, Wakefield	Narragansett 4
Thomas, Alton P., ( <i>Woonsocket</i> ) 18 Monument Square, Woonsocket	Woonsocket 6846
Thompson, Edward R., ( <i>Pawtucket</i> ) 18 Exchange Street, Room 218-220, Pawtucket	BL 0132
Thompson, Edwin G., 68 Pocasset Avenue, Providence 9	WE 0041
Thompson, Ernest D., 90 Waterman Street, Providence 6	UN 1115, GA 1600
Thompson, William C., Washington Trust Building, Westerly	Westerly 4770
Tingley, Louisa P., 171 Westminster Street, Providence 3	GA 5922
Tollefson, George A., ( <i>Newport</i> ) 12 Kay Street, Newport	Newport 6349
Trainor, Edward H., ( <i>Pawtucket</i> ) 69 Walcott Street, Pawtucket	PE 1033
Tremblay, Euclide L., ( <i>Woonsocket</i> ) 66 Hamlet Avenue, Woonsocket	Woonsocket 4477-R
Triedman, Harry, ( <i>Pawtucket</i> ) 33 Cottage Street, Pawtucket	PE 5420-W
Troppoli, Daniel V., 380 Broadway, Providence 9	UN 3325
Trott, Raymond H., 219 Waterman Street, Providence 6	GA 1721, GA 1600
Tully, William H., Jr., ( <i>Washington</i> ) 32 Lake Street, Wakefield	Narragansett 80
Turco, Salvatore J. P., ( <i>Washington</i> ) 170 High Street, Peace Dale	Narragansett 34
Turner, Charles S., 973 Broad Street, Providence 5	WI 4114
Turner, Henry E., ( <i>Pawtucket</i> ) 101 Broadway, Pawtucket	BL 3083
Turner, Howard K., 199 Thayer Street, Providence 6	GA 7368, GA 1600
Turner, J. Lincoln, ( <i>Pawtucket</i> ) 101 Broadway, Pawtucket	PE 0594
Tweddel, Henry J., ( <i>Woonsocket</i> ) 115 Cass Street, Woonsocket	Woonsocket 5322

continued on next page

## ROSTER OF FELLOWS, 1948

## U

Umstead, Howard W., ( <i>Pawtucket</i> ) 188 Main Street, Pawtucket	BL 1924
Utter, Henry E., 122 Waterman Street, Providence 6	GA 2147

## V

Vallone, John J., 270 Elmwood Avenue, Providence 7	JA 2433
Van Benschoten, George W., 195 Thayer Street, Providence 6	GA 3867
Vaughn, Arthur H., 137 Warren Avenue, East Providence 14	EA 1721
Verrone, Anthony C., 1574 Cranston Street, Cranston 9	UN 0460, GA 3333
Vian, George M., ( <i>Woonsocket</i> ) 308 Stadium Building, Woonsocket	Woonsocket 5914-W
Vidal, Jeannette E., ( <i>Kent</i> ) 14 St. John Street, West Warwick	VA 0544
Vieira, Edwin, 221 Warren Avenue, East Providence 14	EA 2248
Visgilio, Thomas, Jr., ( <i>Washington</i> ) Room 415, Washington Trust Building, Westerly	Westerly 2509
Votta, Paul J., St. Joseph's Hospital, Providence 7	DE 2509

## W

Walsh, John G., 221 Thayer Street, Providence 6	GA 1710
Warren, Jacob R., ( <i>Washington</i> ) 59 Elm St., Westerly	Westerly 2616
Waterman, George W., 155 Thayer Street, Providence 6	DE 4229, GA 1600
Webber, Joseph B., 730 Broad Street, Providence 7	HO 5431
Webster, Frederick A., ( <i>Pawtucket</i> ) 112 Waterman Street, Providence 6	JA 4258
Welch, Stephen A., 253 Washington Street, Providence	GA 1333
Westcott, Clinton S., 454 Angell Street, Providence 6	PL 2440
Westcott, Niles, Butler Hospital, Providence 6	GA 3456
Weyler, Henry L. C., 335 Angell Street, Providence 6	GA 0720
Wheaton, James L., ( <i>Pawtucket</i> ) 164 Broadway, Pawtucket	PE 2102
Whipple, Richard K., 122 Waterman Street, Providence 6	DE 1700
White, George F., 1300 Elmwood Avenue, Cranston 7	WI 3131, GA 1600
Whitmarsh, Robert H., 154 Angell Street, Providence 6	GA 3061, GA 1600
Wilcox, Roswell S., 1374 Eddy Street, Providence 5	WI 4224
Williams, Harold W., 129 Waterman Street, Providence 6	UN 0459, GA 1600
Williams, Pearl, 371 Broad Street, Providence 7	GA 1966
Williams, Robert J., Rhode Island Hospital, Providence	DE 4300
Windsberg, Eske, 203 Thayer Street, Providence 6	PL 4343
Wing, Elihu S., 155 Thayer Street, Providence 6	GA 3314
Winkler, Herman A., 224 Thayer Street, Providence 6	GA 4010, GA 1600
Winkler, Malcolm, 199 Thayer Street, Providence 6	DE 0105, GA 1600
Wise, Bernard O., Box 291, Phoenixville, Pennsylvania	
Wittes, Saul A., ( <i>Woonsocket</i> ) Stadium Building, Woonsocket	Woonsocket 5910-W
Wittig, Joseph E., ( <i>Kent</i> ) 331 Washington Street, West Warwick	Valley 0919
Wolfe, Hattie G., State Hospital, Howard	HO 4700
Woodcome, Harold A., ( <i>Pawtucket</i> ) 156 Broadway, Pawtucket	BL 2907-W
Wright, David G., Butler Hospital, Providence	GA 3456

## Y

Yessian, Mark A., 184 Elmwood Avenue, Providence 7	DE 6613
Young, Daniel D., 134 Francis Street, Providence 3	GA 7517, GA 3333
Young, George L., ( <i>Kent</i> ) 4640 Post Road, East Greenwich	Greenwich 614-W
Young, John A., ( <i>Newport</i> ) 253 Broadway, Newport	Newport 956

## Z

Zambarano, Ubaldo E., State Sanatorium, Wallum Lake	Pascoag 22
Zamil, Edward ( <i>Newport</i> ) 99 Touro Street, Newport	Newport 6616-W
Zecchino, Vincent, 185 Angell Street, Providence 6	UN 9000
Zielinski, Norbert U., ( <i>Newport</i> ) 27 Kay Street, Newport	Newport 623
Zimdahl, Walter T., (1st Lt., MC, 047190) Brooke General Hospital, Annex 4, Fort Sam Houston, Texas	
Zinno, Genarino R., 334 Branch Avenue, Providence 4	GA 6534
Zolmian, Hrad H., ( <i>Pawtucket</i> ) 116 Mineral Spring Avenue, Pawtucket	BL 0143
Zouraboff, Catherine, 167 Julia Street, Cranston 10	WI 4485
Zucker, Joseph M., Mental Hygiene Clinic, Veterans Administration, Providence	JA 5050
Zurawski, Charles, 30 Olneyville Square, Providence 9	WE 3581-M

### PHYSICAL EXAMINATIONS FOR NATIONAL SERVICE LIFE OR UNITED STATES GOVERNMENT LIFE INSURANCE

The Branch Insurance Service has requested that the following information be circularized to physicians in New England:

"Where physical examination is required by an applicant for National Service Life Insurance or United States Government Life Insurance, such examination may be made at the applicant's own expense by a physician duly licensed for the practice of medicine by a State, Territory of the United States, or the District of Columbia, who is not related to the applicant by blood or marriage, associated with him in business, or pecuniarily interested in the issuance or reinstatement of the insurance.

"When a physician makes examination of an applicant for National Service Life Insurance, it is requested that the physician not return completed application to the applicant, but forward same to Veterans

Administration, Insurance Service, Branch Office No. 1, 55 Tremont St., Boston, Mass. with a postmark date not later than 5 days from the date of examination.

"When a physician makes examination in connection with United States Government Life Insurance, it is requested that the physician forward completed application to Veteran's Administration, Insurance Service, Washington 25, D. C. with a postmark date not later than 5 days from the date of making examination."

It is suggested that the information be incorporated in any instruction bulletins your office issues to community physicians or in the monthly publications of your State Medical Society.

FRANCIS B. CARROLL, M.D.  
Branch Medical Director  
Veterans Administration

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1. Kasper, J. A. and Jeffrey, I. A.: A Simplified Benedict Test for Glycosuria, *Amer. J. Clin. Pathology*, 74:117-21 (Nov.) 1944.

2. Haid, W. H.: The Use of Screening Tests in the Clinical Laboratory, *J. Amer. Med. Tech.*, 8:606-14 (Sept.) 1947.

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## BOOK REVIEWS

A MANUAL OF PHARMACOLOGY AND ITS APPLICATION TO THERAPEUTICS AND TOXICOLOGY, By Torald Sollmann, M.D. Phil.: W. B. Saunders Company. 7th ed., 1948. \$11.50

This revised edition of Sollmann's book has some outstanding characteristics which make it an advance in pharmacological text books. The subject matter is presented in a manner which integrates the material discussed with its clinical applications. This characteristic is emphasized if the treatment of subject material in the new edition is compared with an older edition.

The present volume very adequately covers advances in such fields as the antibiotic agents, the antihistaminics, and the nitrogen mustards. The treatment of the older drugs is characterized by the emphasis on well established recent facts and the elimination of unnecessary speculation.

The bibliography is quite complete and the new arrangement of two columns to a page makes for easier reading.

W. J. H. FISCHER, JR., M.D.

## "MEDICAL WRITING—THE TECHNIC AND THE ART"

by Morris Fishbein, M. D.

The Blakiston Company

This book summarizes the ideas of the Journal of the American Medical Association as to how such writing should be done. It is complete and authoritative and anyone who masters it should be quite competent to write a good medical article. Provided, of course, that in his spare moments he has become acquainted with some pertinent medical matters.

In chapter two we read "Whenever a writer feels an impulse to perpetrate a piece of exceptionally fancy writing, he should obey it but should delete what he has written before sending the manuscript to press." In the introduction Dr. Fishbein says, "... physicians . . . prepare contributions with a striving and agony and delay comparable to the delivery of human progeny by one untutored in the possible refinements associated with that performance." The undeleted fine writing here has me wondering whether the principara or the accoucher is suffering the agony.

We will have to take some of the doctor's pronouncements ex cathedra. Why is adrenal better than suprarenal while epinephrine is better than adrenalin? Why can't we use the one word "mongolian" as Webster does, instead of "person afflicted with neongolism" as Fishbein does?

Boswell appealed to Johnson for his opinion when a citizen of Edinboro sued because he had been designated doctor in a formal document and he preferred physician. Johnson upheld the dignity of the title Doctor. Fishbein says use physician. I am so vacillating that if I needed one of the words several times in an article I would alternate.

But despite the finding of few little pet foibles of Dr. Fishbein, I think this is a mighty good book. I wish every writer of a medical paper would spend a little while looking it over and I think every medical editor should keep it next to Fowler's Modern English Usage.

PETER PINEO CHASE, M.D.

### PRACTICE OF ALLERGY

Vaughan, Black

C. V. Mosby Co. 1948

The first edition of the Practice of Allergy appeared in 1939 and was written by Warren Vaughan. Unfortunately he did not live to complete the second edition of his book. The task of bringing it to full fruit fell upon the shoulders of Harvey Black.

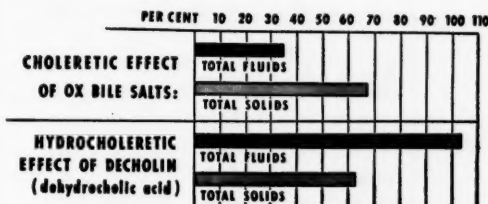
The book has 1131 pages and is divided into 79 Chapters. The main division of the book embraces Development, General Characteristics of Clinical Allergy, Physiology, Allergic Diagnosis, Food Allergy and Allergens, Pollens and other Inhalants, Bacteria, Fungi, Drugs, Contact Allergy, Physical Allergy, Pharmacology, and Allergic Diseases.

The text is printed on a good grade of paper. The type is well set and does not strain the eyes. The style of writing makes the book very readable. One does not get lost in a maze of words and nebulous fantasia. The Practice of Allergy is a practical work and can be easily understood by one not well versed in allergy.

Allergic terminology is simply stated. Avoidance of the term hypersensitivity (a person is either sensitive or not) and desensitization (should be hyposensitization) is suggested. Under basic pathology and through out the book the three characteristics of allergy are emphasized—1) smooth muscle spasm, 2) increased capillary permeability, 3) eosinophilia. In urticaria, migraine, and allergic renal colic the allergic reaction is usually reversible while in asthma, eczema, and colitis the return to normal is usually not complete. Irreversible changes cause smooth muscle hypertrophy, polyposis, Arthus phenomenon and periarteritis nodosa. All that can be safely said of histamine is that it fluctuates more in the blood of the allergic than the normal person. The use of the antihistaminics can not be justified on the fact that they are antagonists to histamine. For while they work in hay fever they fail in other manifestation of allergy, thus disposing

*continued on next page*

## DECHOLIN HYDROCHOLERESIS Encourages Biliary Tract Drainage



● Percentage Increase in Composition  
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Ivy, A. C., et al: Am. J. Dig. Dis. 7:333 (Aug.) 1940.

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### BOOK REVIEW

*concluded from preceding page*

of the histamine theory as the protean etiology of allergic reactions.

Vaughan and Black devote time to the relationship between psychiatry and allergy. Psychomatic allergic reactions are being given serious study these days.

The section on food allergy is quite exhaustive. The author believes in group testing of related foods and has them arranged in this fashion. The chapters on pollen surveys and aerobiology were written by Oren C. Durham of the Abbott Laboratories. These are excellent. The illustrations and descriptions of the botanical inhalants are quite detailed.

Sizeable sections are devoted to bacterial and mold allergy, contrasting with the meager material once devoted to this subject. J. B. Howell wrote the chapter on mold allergy combining dermatological knowledge with the subject of allergy. Drugs are adequately handled and long lists are given. Contact allergy to plants, animal products, drugs, chemicals, and cosmetics are well treated. Tables and methods of testing are offered.

Under allergic diseases are listed asthma, hay fever, migraine, gastrointestinal allergic disorders, certain cardiovascular diseases, and a miscellaneous group comprising Loeffler's syndrome, epilepsy, Meniere's disease, arthritis, otologic and ocular allergy.

No mention is made of allergic phenomena relating to blood groupings, transfusion reactions, the Rh factor, Landsteiner's work or the recent work of Wiener who has shown the presence of monovalent and bivalent antibodies with their important relationship to allergy and immune states.

In conclusion I might quote the author "Allergy is not a pathologic state. It is a pathologic exaggeration of a normal physiologic response. The probability is that the development of sensitization to foreign substances is almost a normal physiologic function. If all of us were to live long enough 100% of the population would develop at least a minor allergy".

PERRY SPERBER, M.D.

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November 3, 4, and 5, 1948

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**WEDNESDAY, NOVEMBER 3, 1948****MORNING SESSION**

- 10:00 a.m. CLINICAL INDICATIONS FOR THE USE OF THE NEWER ANALGESIC DRUGS WITH NOTES ON THEIR ADDICTION LIABILITIES  
HARRIS ISBELL, M.D., *Director of Research Division, U. S. Public Health Service Hospital, Lexington, Kentucky*
- 10:30 a.m. THE CAUSES OF INDIGESTION AND THEIR TREATMENT  
WALTER L. PALMER, M.D., *Professor of Medicine, University of Chicago*
- 11:00 a.m. 15 MINUTE INTERMISSION
- 11:15 a.m. NEWER AGENTS IN THE TREATMENT OF CANCER  
CORNELIUS RHODS, M.D., *Director, Memorial Hospital and Sloan-Kettering Institute for Cancer Research.*
- 11:45 a.m. MANAGEMENT OF THE COMPLICATIONS OF PEPTIC ULCER: INDICATIONS FOR TREATMENT.  
WALTER L. PALMER, M.D.
- 12:15 p.m. LUNCHEON: COPLEY PLAZA HOTEL. Subject to be announced.  
CORNELIUS P. RHODS, M.D.

**AFTERNOON SESSION**

- 2:00 p.m. NEWER CHEMOTHERAPEUTIC APPROACHES TO VIRUS DISEASE.  
JOHN H. DINGLE, M.D., *Professor of Preventive Medicine, Western Reserve University School of Medicine, Cleveland*
- 2:30 p.m. LOW SALT REGIME AND OTHER MEASURES IN THE TREATMENT OF CONGESTIVE HEART FAILURE  
HAROLD M. MARVIN, M.D., *Associate Professor of Medicine, Yale University School of Medicine*
- 3:00 p.m. NEWER CHEMOTHERAPEUTIC APPROACHES TO RICKETTSIA DISEASES  
JOHN H. DINGLE, M.D.
- 3:30 p.m. 15 MINUTE INTERMISSION
- 3:45 p.m. EARLY HANDLING OF THE SEVERELY INJURED  
ROBERT KENNEDY, M.D., *Chairman, Fracture Committee of the American College of Surgeons*
- 4:15 p.m. THE CLINICAL MANAGEMENT OF ACUTE CORONARY OCCLUSION  
WILLIAM D. STROUD, M.D., *Professor of Cardiology, University of Pennsylvania Graduate School of Medicine*
- 4:45 p.m. PITFALLS IN THE TREATMENT OF FRACTURES  
ROBERT KENNEDY, M.D.

**THURSDAY, NOVEMBER 4, 1948****MORNING SESSION**

- 10:00 a.m. THE SURGICAL TREATMENT OF GASTRIC AND DUODENAL ULCER  
G. GAVIN MILLER, M.D., *Associate Professor of Surgery, McGill University*
- 10:30 a.m. THE USE OF ESTROGENS IN WOMEN  
EPHRAIM SHORR, M.D., *Associate Professor of Medicine, Cornell University Medical College*
- 11:00 a.m. 15 MINUTE INTERMISSION
- 11:15 a.m. THE RECOGNITION AND MANAGEMENT OF INTESTINAL OBSTRUCTION  
G. GAVIN MILLER, M.D.

- 11:45 a.m. THE USE OF ANDROGENS IN WOMEN  
EPHRAIM SHORR, M.D.
- 12:15 a.m. LUNCHEON: COPLEY PLAZA HOTEL  
THE PRESENT STATUS OF TETANUS IMMUNIZATION  
CONRAD WESSELHOEFT, M.D., *Clinical Professor of Infectious Diseases,  
Harvard School of Public Health*

## AFTERNOON SESSION

- 2:15 p.m. WHAT THE RH FACTOR IS NOT  
LOUIS K. DIAMOND, M.D., *Assistant Professor of Pediatrics, Harvard Medical School*
- 2:45 p.m. OPHTHALMOLOGY  
ALBERT D. RUEDEMANN, M.D., *Professor of Ophthalmology, Wayne University  
School of Medicine, Detroit*
- 3:15 p.m. 15 MINUTE INTERMISSION
- 3:30 p.m. THE MANAGEMENT OF THE POTENTIALLY INFECTED OBSTETRICAL CASE  
EDWARD G. WATERS, M.D., *Assistant Clinical Professor of Obstetrics and Gynecology,  
College of Physicians and Surgeons*
- 4:00 p.m. OPHTHALMOLOGY  
ALBERT D. RUEDEMANN, M.D.
- 7:00 p.m. DINNER: COPLEY PLAZA HOTEL  
*Speaker and subject to be announced*

## FRIDAY, NOVEMBER 5, 1948

Clinics will be conducted during the morning at various hospitals in metropolitan Boston. The time, location, conductor and subject of each clinic will be announced.

An unusually interesting program will be presented. You are cordially invited to attend. Please mail applications early and reserve these dates.

The registration fee is \$2.00, and should be forwarded by mail, if possible. Dinner will be \$3.50 and the luncheons \$2.50 each. Members may invite guests to luncheon and dinner if reservations are made in advance.

Physicians so desiring may be left on call (KE 6-5600).



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